

Neodymium-Iron-Boron Magnet Grades Summary Product List & Reference Guide

Basic Grades

Properties	B _r		H _{CB}		H _{CJ}		(BH) _{max}		Temp. Coef.		T _w
	Grade**	Typical mT	Typical gauss	min kA/m	min oersteds	min kA/m	min oersteds	Typical kJ/m ³	Typical MGOe	α(B _r) %/°C	α(H _{CJ}) %/°C
N30	1105	11050	796	100000	955	12000	235	30	-0.12	-0.750	80
N33	1150	11500	836	10500	955	12000	259	33	-0.12	-0.750	80
N35	1210	12100	860	10800	955	12000	0	0	-0.12	-0.618	80
N38	1260	12600	860	10800	955	12000	306	38	-0.12	-0.618	80
N40	1285	12850	923	11600	955	12000	318	40	-0.12	-0.618	80
N42	1315	13150	860	10800	955	12000	334	42	-0.12	-0.618	80
N45	1350	13500	860	10800	955	12000	350	44	-0.12	-0.618	80
N48	1400	14000	836	10500	875	11000	374	47	-0.12	-0.618	80
N50	1425	14250	836	10500	875	11000	390	49	-0.12	-0.618	80
N52	1450	14500	836	10500	875	11000	406	51	-0.12	-0.618	60
N55	1490	14900	716	9000	876	11000	430	54	-0.15	-0.618	60
N33M	1175	11750	836	10500	1114	14000	267	34	-0.12	-0.595	100
N35M	1210	12100	868	10900	1114	14000	283	35	-0.12	-0.595	100
N38M	1260	12600	899	11300	1114	14000	307	39	-0.12	-0.595	100
N40M	1285	12850	923	11600	1114	14000	322	40	-0.12	-0.595	100
N42M	1315	13150	955	12000	1114	14000	338	42	-0.12	-0.595	100
N45M	1350	13500	971	12200	1114	14000	354	44	-0.12	-0.595	100
N48M	1395	13950	995	12500	1114	14000	378	48	-0.12	-0.595	100
N50M	1415	14150	1035	13000	1114	14000	390	49	-0.12	-0.675	100
N52M	1445	14450	995	12500	1035	13000	406	51	-0.12	-0.675	100
N30H	1105	11050	796	10000	1353	17000	235	30	-0.12	-0.572	120
N33H	1175	11750	836	10500	1353	17000	267	34	-0.12	-0.572	120
N35H	1210	12100	868	10900	1353	17000	283	35	-0.12	-0.572	120
N38H	1260	12600	899	11300	1353	17000	307	39	-0.12	-0.572	120
N40H	1285	12850	923	11600	1353	17000	322	40	-0.12	-0.572	120
N42H	1300	13000	955	12000	1353	17000	330	41	-0.12	-0.572	120
N45H	1350	13500	971	12200	1353	17000	354	44	-0.12	-0.572	120
N48H	1390	13900	1011	12700	1273	16000	378	48	-0.12	-0.572	120
N50H	1415	14150	1035	13000	1274	16000	390	49	-0.12	-0.605	120
N30SH	1125	11250	811	10200	1592	20000	243	31	-0.12	-0.549	150
N33SH	1175	11750	844	10600	1592	20000	267	34	-0.12	-0.549	150
N35SH	1210	12100	876	11000	1592	20000	283	35	-0.12	-0.549	150
N38SH	1260	12600	907	11400	1592	20000	307	39	-0.12	-0.549	150
N40SH	1285	12850	939	11800	1592	20000	322	40	-0.12	-0.549	150
N42SH	1310	13100	955	12000	1592	20000	330	41	-0.12	-0.549	150

Properties	B _r		H _{CB}		H _{CJ}		(BH) _{max}		Temp. Coef.		T _w
	Grade**	Typical mT	Typical gauss	min kA/m	min oersteds	min kA/m	min oersteds	Typical kJ/m ³	Typical MGOe	α(B _r) %/°C	α(H _{CJ}) %/°C
N45SH	1350	13500	979	12300	1592	20000	354	44	-0.12	-0.549	150
N48SH	1390	13900	995	12500	1512	19000	374	47	-0.12	-0.535	150
N28UH	1075	10750	764	9600	1990	25000	227	29	-0.12	-0.510	180
N30UH	1125	11250	812	10200	1990	25000	243	31	-0.12	-0.510	180
N33UH	1175	11750	852	10700	1990	25000	267	34	-0.12	-0.510	180
N35UH	1210	12100	860	10800	1990	25000	283	35	-0.12	-0.510	180
N38UH	1260	12600	876	11000	1990	25000	307	39	-0.12	-0.510	180
N40UH	1285	12850	915	11500	1990	25000	318	40	-0.12	-0.465	180
N42UH	1310	13100	955	12000	1990	25000	330	41	-0.12	-0.510	180
N45UH	1350	13500	995	12500	1910	24000	358	45	-0.12	-0.465	180
N28EH	1085	10850	780	9800	2388	30000	227	29	-0.12	-0.472	200
N30EH	1125	11250	812	10200	2388	30000	243	31	-0.12	-0.472	200
N33EH	1165	11650	820	10300	2388	30000	267	34	-0.12	-0.472	200
N35EH	1200	12000	836	10500	2388	30000	279	35	-0.12	-0.472	200
N38EH	1235	12350	899	11300	2388	30000	303	38	-0.12	-0.472	200
N40EH	1270	12700	915	11500	2388	30000	314	39	-0.12	-0.420	200
N42EH	1310	13100	971	12200	2308	29000	326	41	-0.12	-0.410	200
N28AH	1075	10750	780	9800	2706	34000	223	28	-0.12	-0.449	220
N30AH	1120	11200	812	10200	2706	34000	239	30	-0.12	-0.449	220
N33AH	1140	11400	812	10200	2706	34000	231	29	-0.12	-0.393	220
N35AH	1195	11950	883	11100	2706	34000	275	35	-0.12	-0.393	220
N38AH	1240	12400	923	11600	2626	33000	299	38	-0.12	-0.393	220

Grain Boundary Diffused Grades

G45SH	1350	13500	979	12300	1592	20000	354	44	-0.12	-0.549	150
G48SH	1390	13900	1011	12700	1592	20000	374	47	-0.12	-0.549	150
G50SH	1425	14250	836	10500	1592	20000	390	49	-0.12	-0.549	150
G52SH	1440	14400	1067	13400	1592	20000	402	51	-0.12	-0.549	150
G55SH	1460	14600	1083	13600	1512	19000	418	53	-0.12	-0.549	150
GB48SH	1390	13900	1011	12700	1751	22000	374	47	-0.12	-0.549	150
GB50SH	1425	14250	836	10500	1751	22000	390	49	-0.12	-0.549	150
GB52SH	1440	14400	1067	13400	1751	22000	402	51	-0.12	-0.549	150
GB55SH	1460	14600	1083	13600	1672	21000	418	53	-0.12	-0.549	150
G38UH	1260	12600	876	11000	1990	25000	307	39	-0.12	-0.465	180

Properties	B _r		H _{CB}		H _{CJ}		(BH) _{max}		Temp. Coef.		T _w
	Grade**	Typical mT	Typical gauss	min kA/m	min oersteds	min kA/m	min oersteds	Typical kJ/m ³	Typical MGOe	α(B _r) %/°C	α(H _{CJ}) %/°C
G40UH	1285	12850	915	11500	1990	25000	318	40	-0.12	-0.465	180
G42UH	1310	13100	955	12000	1990	25000	330	41	-0.12	-0.465	180
G45UH	1350	13500	979	12300	1990	25000	354	44	-0.12	-0.465	180
G48UH	1390	13900	1011	12700	1990	25000	374	47	-0.12	-0.465	180
G50UH	1410	14100	1051	13200	1990	25000	386	49	-0.12	-0.465	180
G52UH	1430	14300	1067	13400	1990	25000	394	50	-0.12	-0.465	180
G42UH	1310	13100	955	12000	2149	27000	330	41	-0.12	-0.465	180
GB45UH	1350	13500	979	12300	2149	27000	354	44	-0.12	-0.465	180
G48UH	1390	13900	1011	12700	2419	27000	374	47	-0.12	-0.465	180
GB50UH	1410	14100	1051	13200	2449	27000	386	48.506	-0.12	-0.465	180
G30EH	1125	11250	812	10200	2388	30000	243	30.536	-0.12	-0.472	200
G33EH	1165	11650	820	10300	2388	30000	267	33.552	-0.12	-0.472	200
G35EH	1200	12000	836	10500	2388	30000	279	35.06	-0.12	-0.472	200
G38EH	1260	12600	876	11000	2388	30000	306.5	38.516	-0.12	-0.472	200

Enhanced Flux Grades**

N35X	1210	12100	860	10800	955	12000	283	35	-0.11	-0.618	80
N35MX	1210	12100	868	10900	1114	14000	283	35	-0.11	-0.595	100
N45MX	1350	13500	971	12200	1114	14000	354	44	-0.11	-0.595	100
N38HX	1260	12600	899	11300	1353	17000	307	39	-0.11	-0.572	120
N40HX	1285	12850	923	11600	1353	17000	322	40	-0.11	-0.572	120
N45HX	1350	13500	971	12200	1353	17000	354	44	-0.11	-0.572	120
N33SHX	1175	11750	844	10600	1592	20000	267	34	-0.11	-0.549	150
N35SHX	1210	12100	876	11000	1592	20000	283	35	-0.11	-0.549	150
N38SHX	1260	12600	907	11400	1592	20000	307	39	-0.11	-0.549	150
N42SHX	1310	13100	955	12000	1592	20000	330	41	-0.11	-0.549	150
N30SHZ	1125	11250	804	10100	1592	20000	243	31	-0.10	-0.549	150
N33SHZ	1175	11750	844	10600	1592	20000	267	34	-0.10	-0.549	150
N35SHZ	1210	12100	876	11000	1592	20000	283	35	-0.10	-0.549	150
N38SHZ	1260	12600	907	11400	1592	20000	307	39	-0.10	-0.549	150
N45SHZ	1350	13500	979	12300	1592	20000	354	44	-0.10	-0.549	150

** Please check with the factory for availability of grades ending in "X" or "Z".

Properties	B_r		H_{cB}		H_{cJ}		$(BH)_{max}$		Temp. Coef.		T_w
	Typical mT	Typical gauss	min kA/m	min oersteds	min kA/m	min oersteds	Typical kJ/m ³	Typical MGOe	$\alpha(B_r)$ %/°C	$\alpha(H_{cJ})$ %/°C	max °C
N30UHZ	1125	11250	812	10200	1990	25000	243	31	-0.10	-0.510	180
N33UHZ	1175	11750	852	10700	1990	25000	267	34	-0.10	-0.510	180
N38UHZ	1260	12600	876	11000	1990	25000	307	39	-0.10	-0.510	180
N40UHZ	1285	12850	915	11500	1990	25000	318	40	-0.10	-0.510	180
N30EHZ	1125	11250	812	10200	2388	30000	0	0	-0.10	-0.472	200
N38EHZ	1235	12350	899	11300	2388	30000	0	0	-0.10	-0.472	200
N30AHZ	1120	11200	812	10200	2706	34000	0	0	-0.10	-0.449	220

** Please check with the factory for availability of grades ending in "X" or "Z".

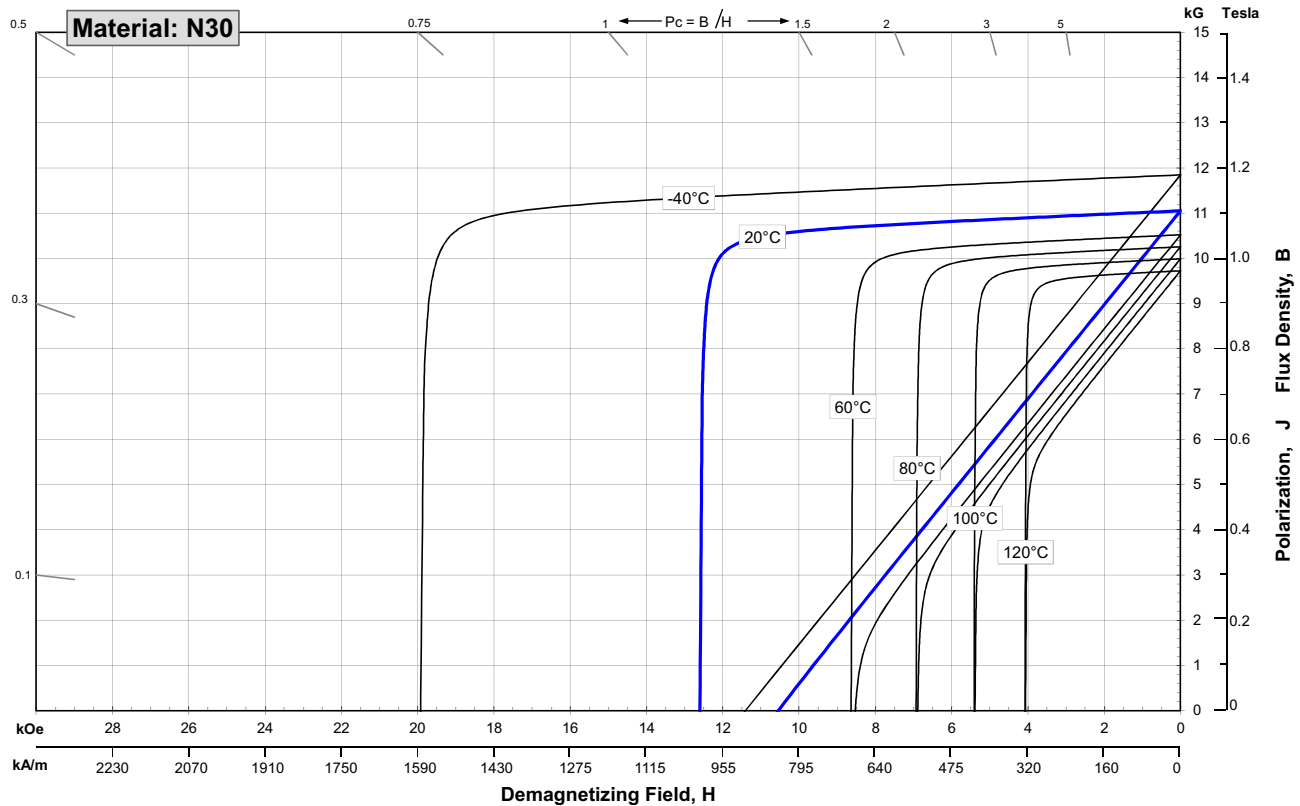
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	10,800	11,050	11,300
	mT	1080	1105	1130
H_{cB} , Coercivity	Oersteds	10,000	10,400	10,800
	kA/m	796	828	859
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BH_{max} , Maximum Energy Product	MGOe	28	30	31
	kJ/m ³	223	235	247

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.750
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m · K)		7.6
Specific Heat ⁽³⁾	J / (kg · K)		460
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.5
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW · cm		180

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

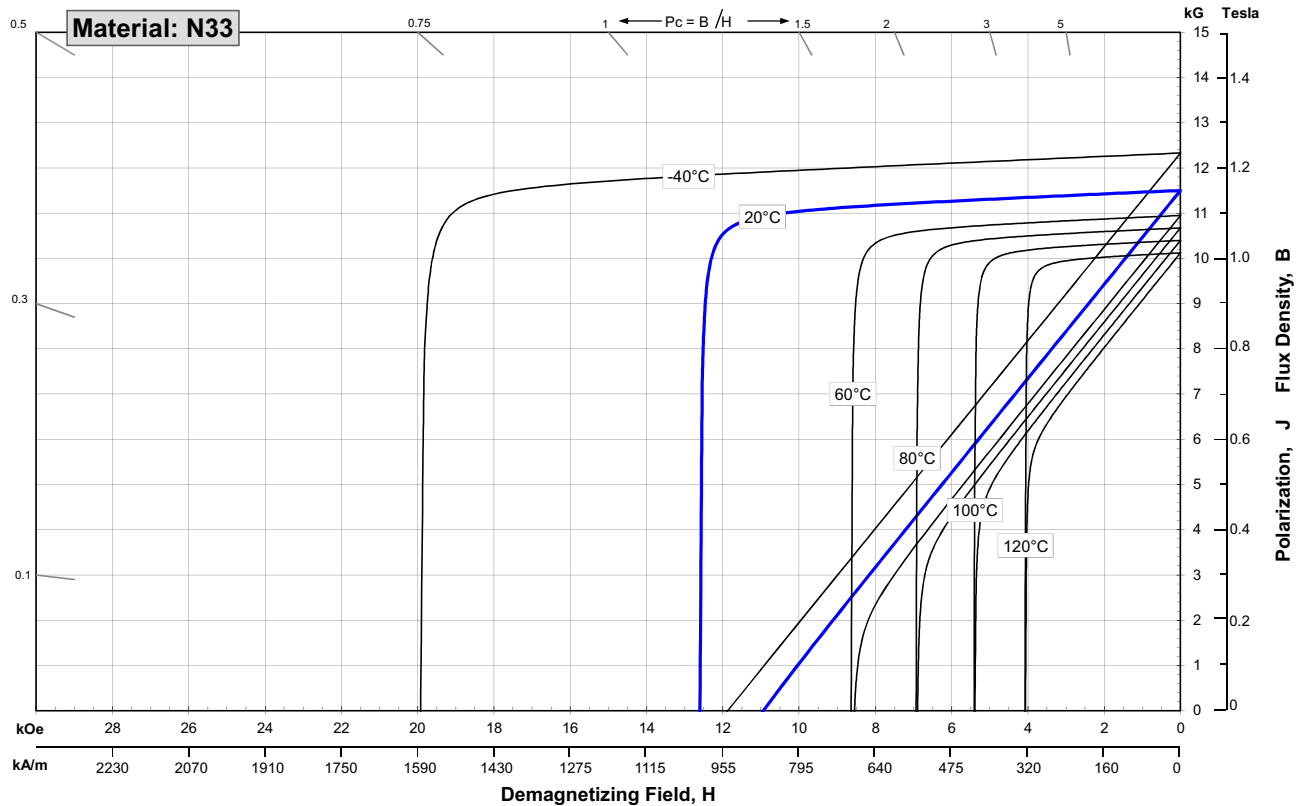
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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,300
	mT	1130	1150	1170
H_{cB} , Coercivity	Oersteds	10,500	10,850	11,200
	kA/m	836	863	891
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BHmax , Maximum Energy Product	MGOe	31	33	34
	kJ/m ³	247	259	271

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.750
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW • cm

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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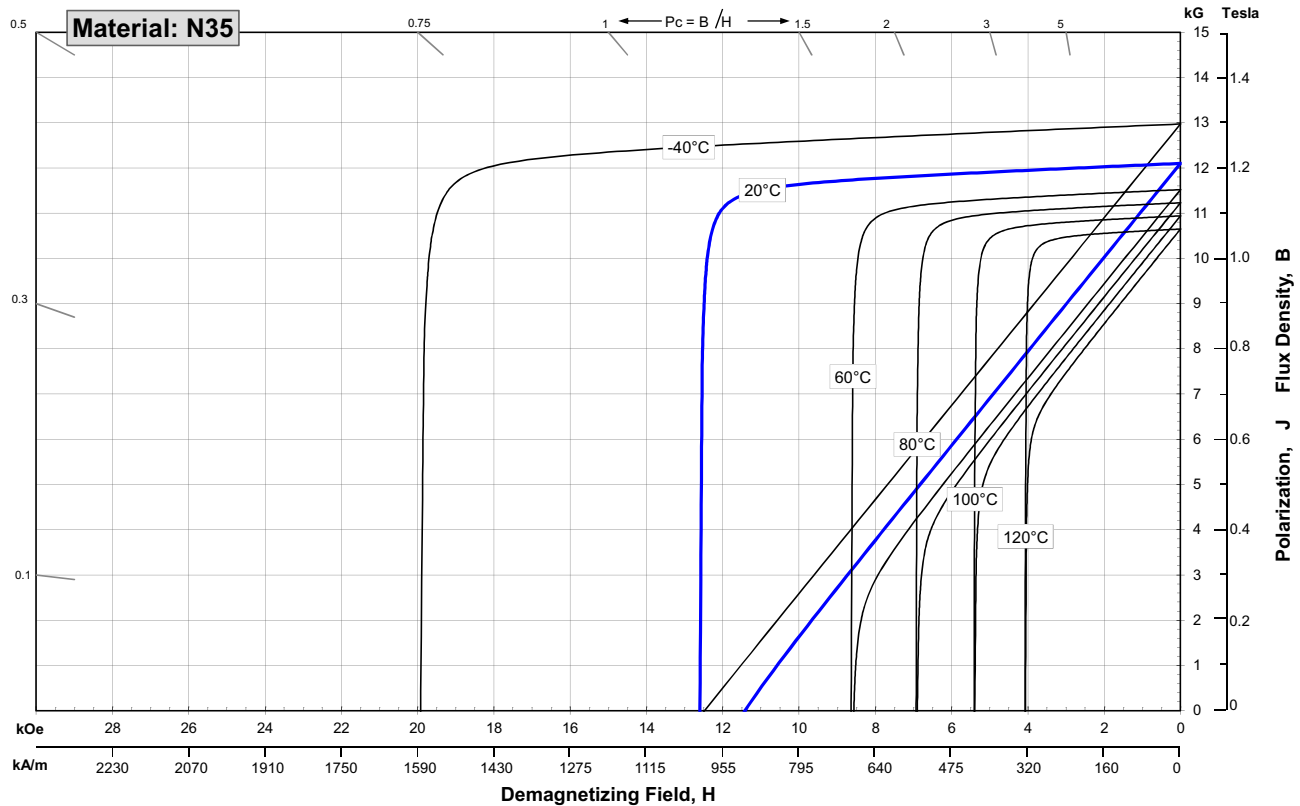
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1210	1250
H_{cB} , Coercivity	Oersteds	10,800	11,400	12,000
	kA/m	860	907	955
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BHmax , Maximum Energy Product	MGOe	33	36	38
	kJ/m ³	263	283	302

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.750
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW • cm

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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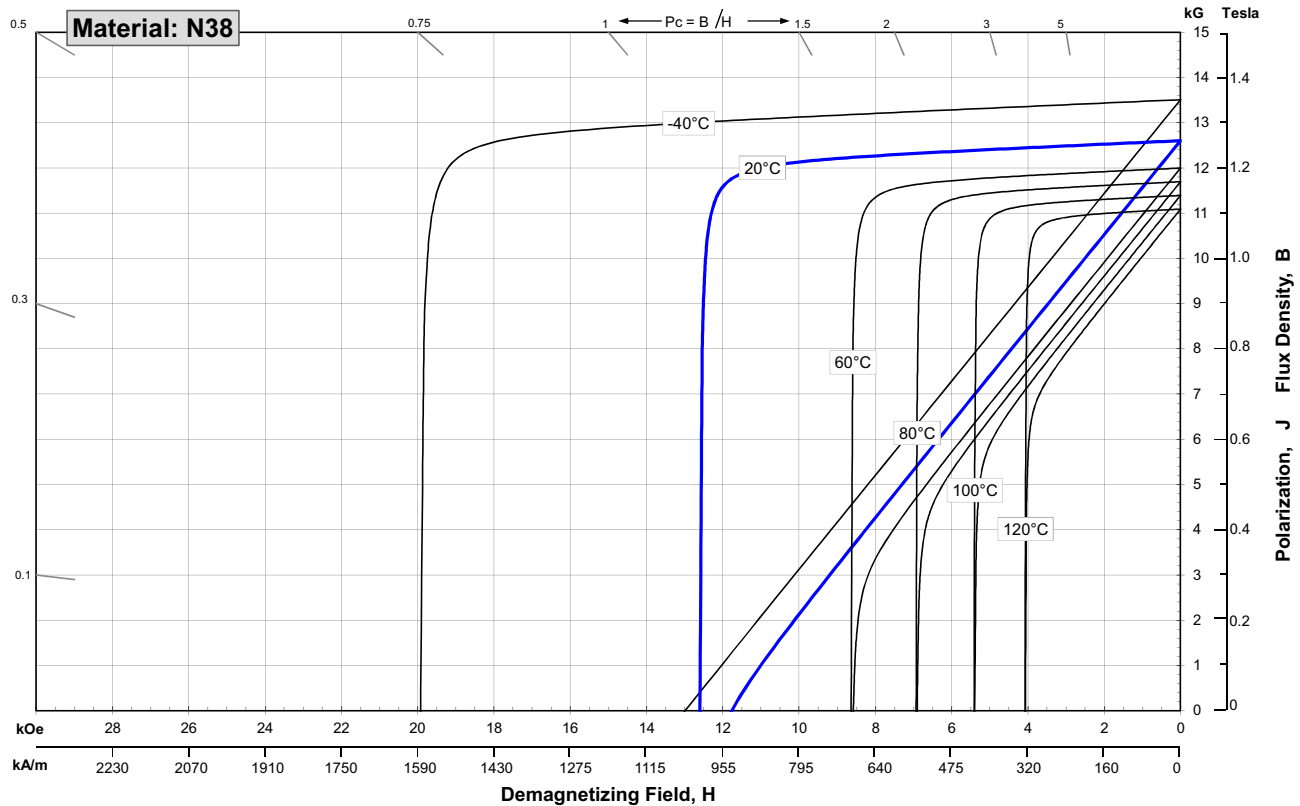
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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,200
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	10,800	11,600	12,400
	kA/m	860	923	987
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BHmax , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	286	306	326

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.750
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties				
Flexural Strength	psi			41,300
	MPa			285
Density	g/cm ³			7.5
Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			180

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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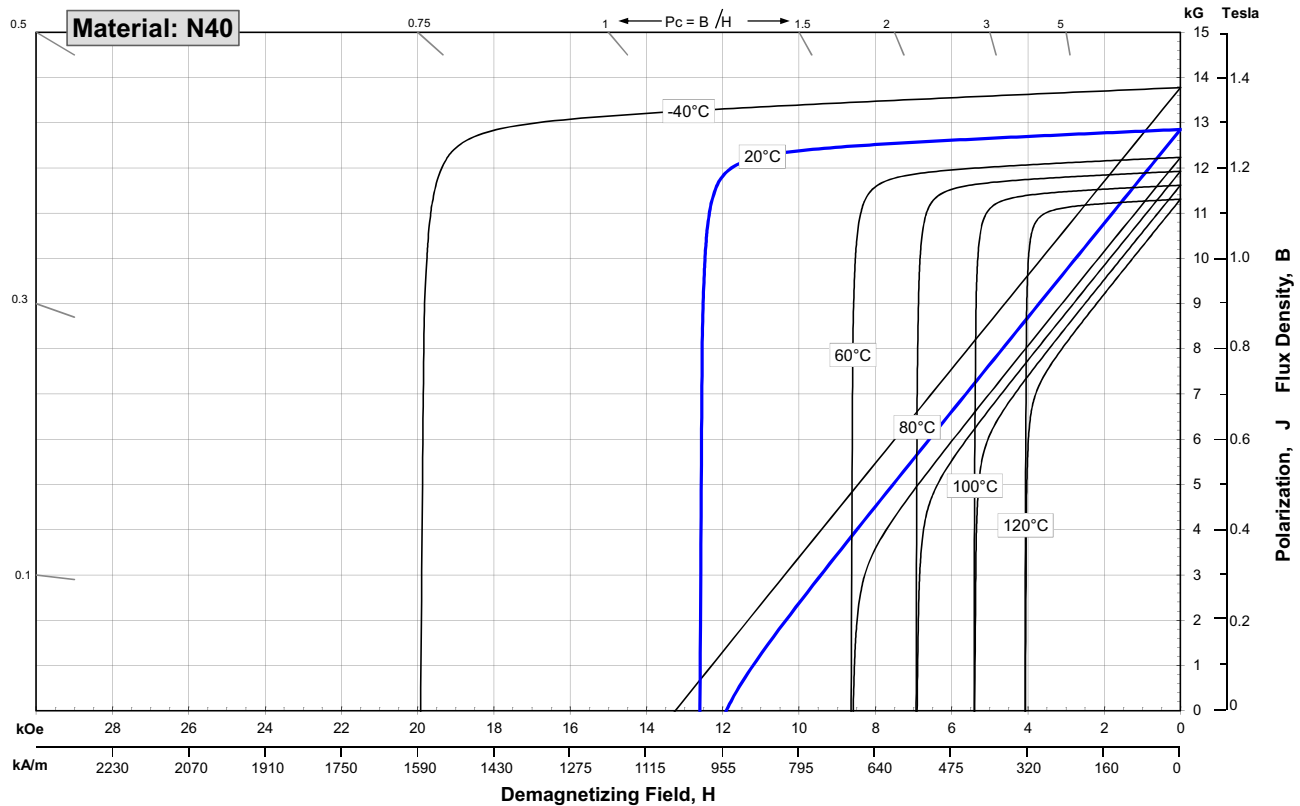
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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,500
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,600	12,100	12,600
	kA/m	923	963	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BHmax , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	C // C ^		
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C		-0.120	
of Coercivity, α(H _{cj})	%/°C		-0.750	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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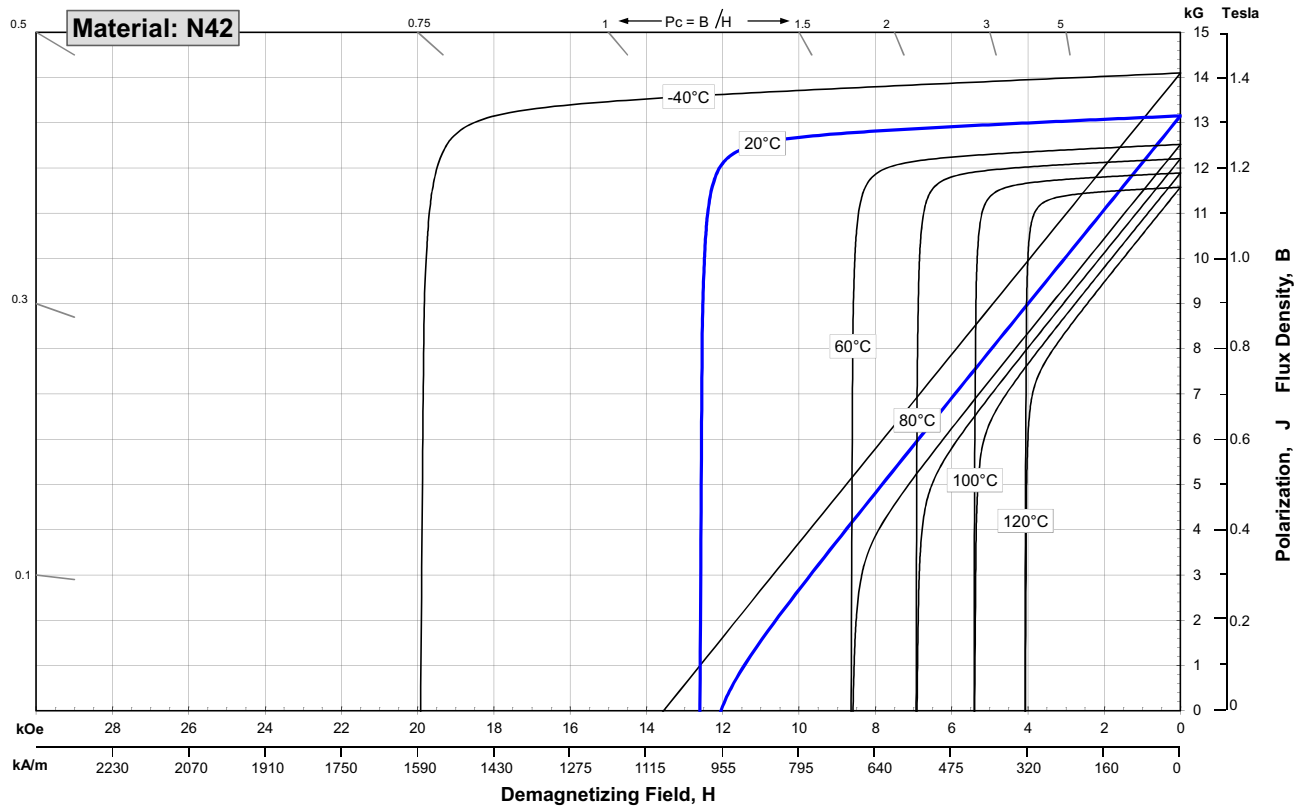
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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,800
	mT	1280	1315	1350
H_{cB} , Coercivity	Oersteds	10,800	11,850	12,900
	kA/m	860	943	1027
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BHmax , Maximum Energy Product	MGOe	40	42	44
	kJ/m ³	318	334	350

Characteristic	Units	C // C ^		
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C		-0.120	
of Coercivity, α(H _{cj})	%/°C		-0.750	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

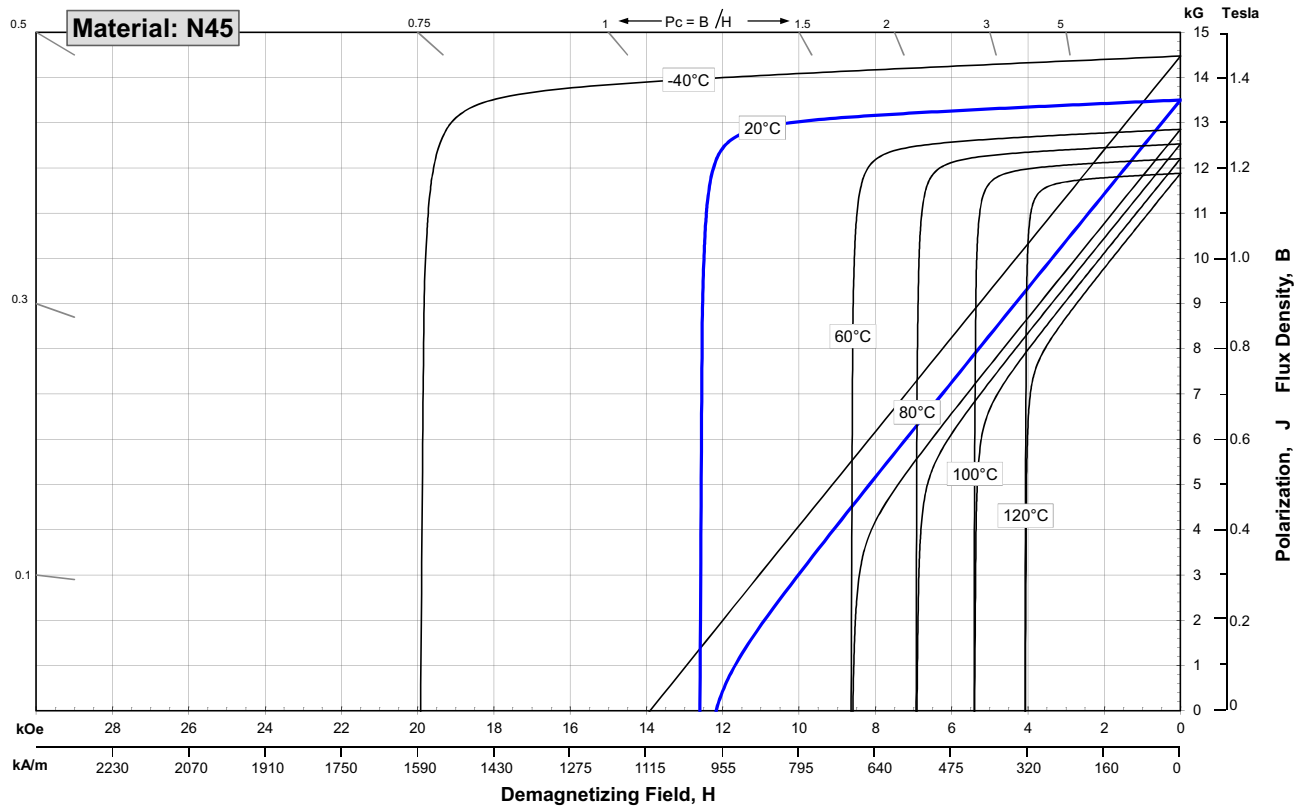
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	13,200
	mT	1320	1350	1380
H_{cB} , Coercivity	Oersteds	10,800	12,000	13,200
	kA/m	860	955	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BHmax , Maximum Energy Product	MGOe	42	44	46
	kJ/m ³	334	350	366

Characteristic	Units	C // C ^	
		Reversible Temperature Coefficients ⁽¹⁾	
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.750
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
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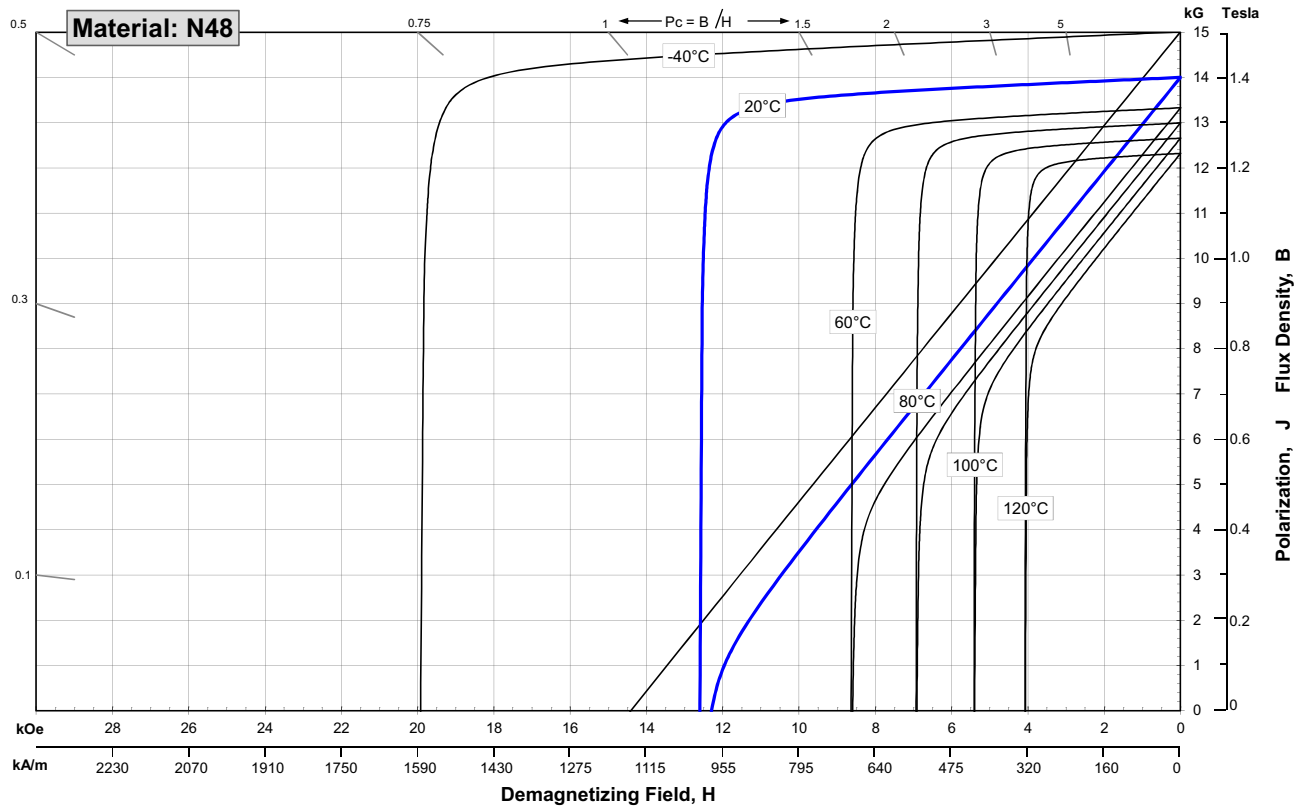
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	13,700
	mT	1370	1400	1430
H_{cB} , Coercivity	Oersteds	10,500	12,100	13,700
	kA/m	836	963	1090
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BH_{max} , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.750
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.5
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

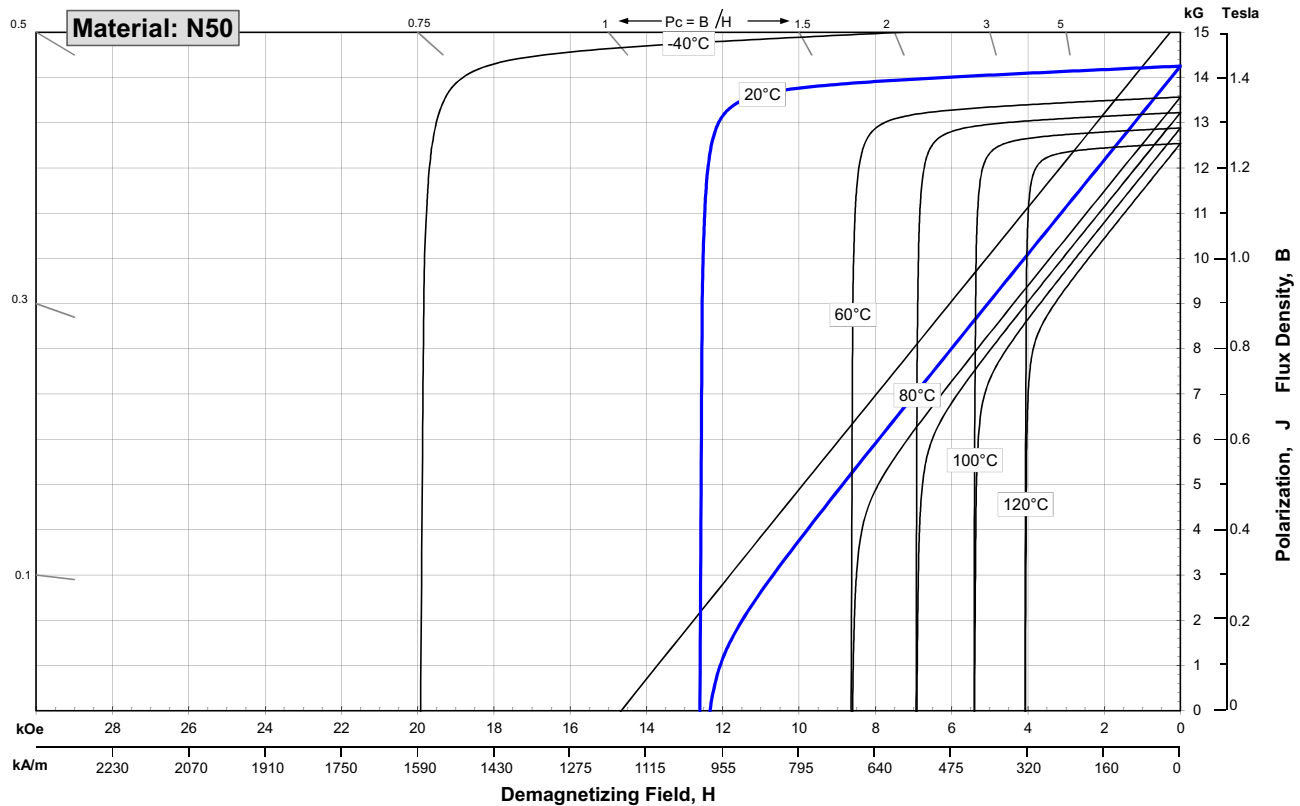
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	13,900
	mT	1390	1425	1460
H_{cB} , Coercivity	Oersteds	10,500	12,250	14,000
	kA/m	836	975	1114
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BHmax , Maximum Energy Product	MGOe	47	49	51
	kJ/m ³	374	390	406

Characteristic	Units	C // C ^		
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C		-0.120	
of Coercivity, α(H _{cj})	%/°C		-0.750	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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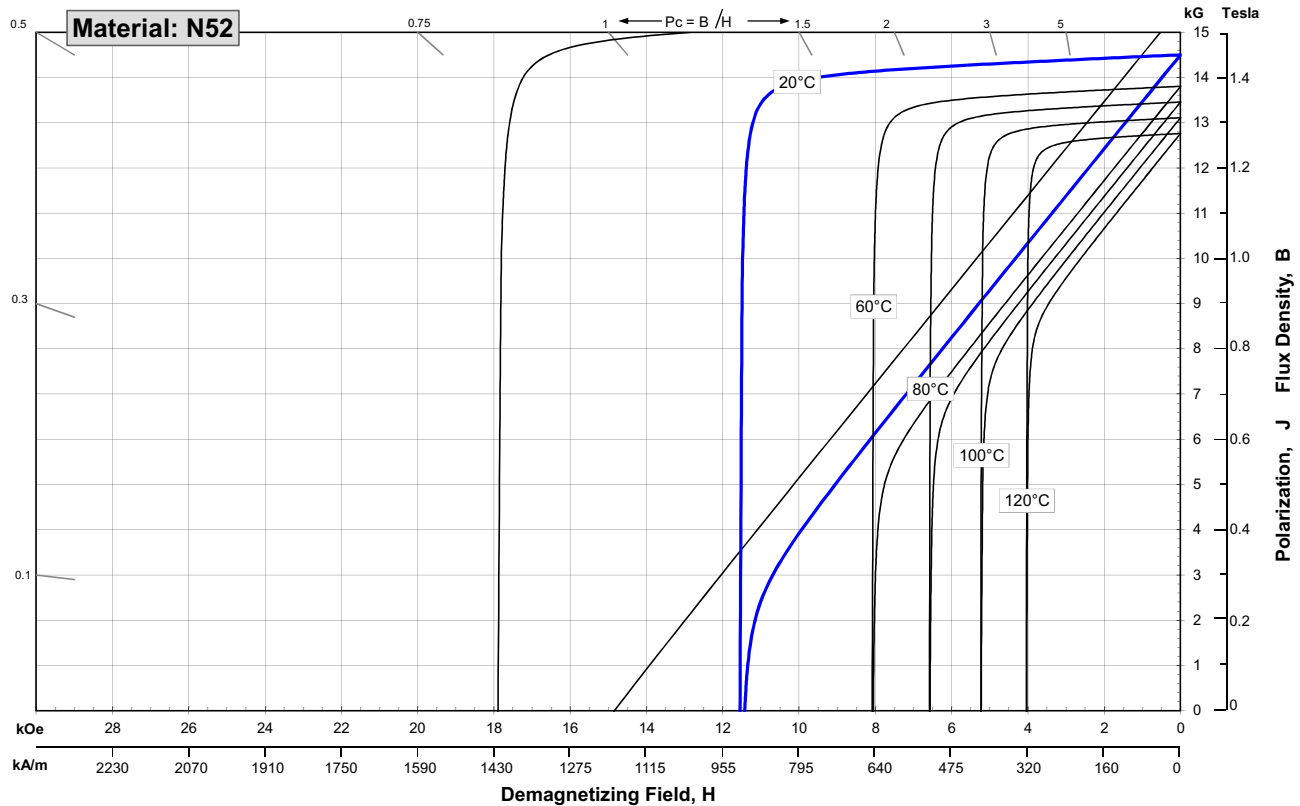
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	14,200
	mT	1420	1450	1480
H_{cB} , Coercivity	Oersteds	10,500	12,300	14,100
	kA/m	836	979	1122
H_{cJ} , Intrinsic Coercivity	Oersteds	11,000		
	kA/m	876		
BHmax , Maximum Energy Product	MGOe	49	51	53
	kJ/m ³	390	406	422

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.750
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties				
Flexural Strength	psi			41,300
	MPa			285
Density	g/cm ³			7.5
Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			180

Notes: (1) Coefficients measured between 20 and 60 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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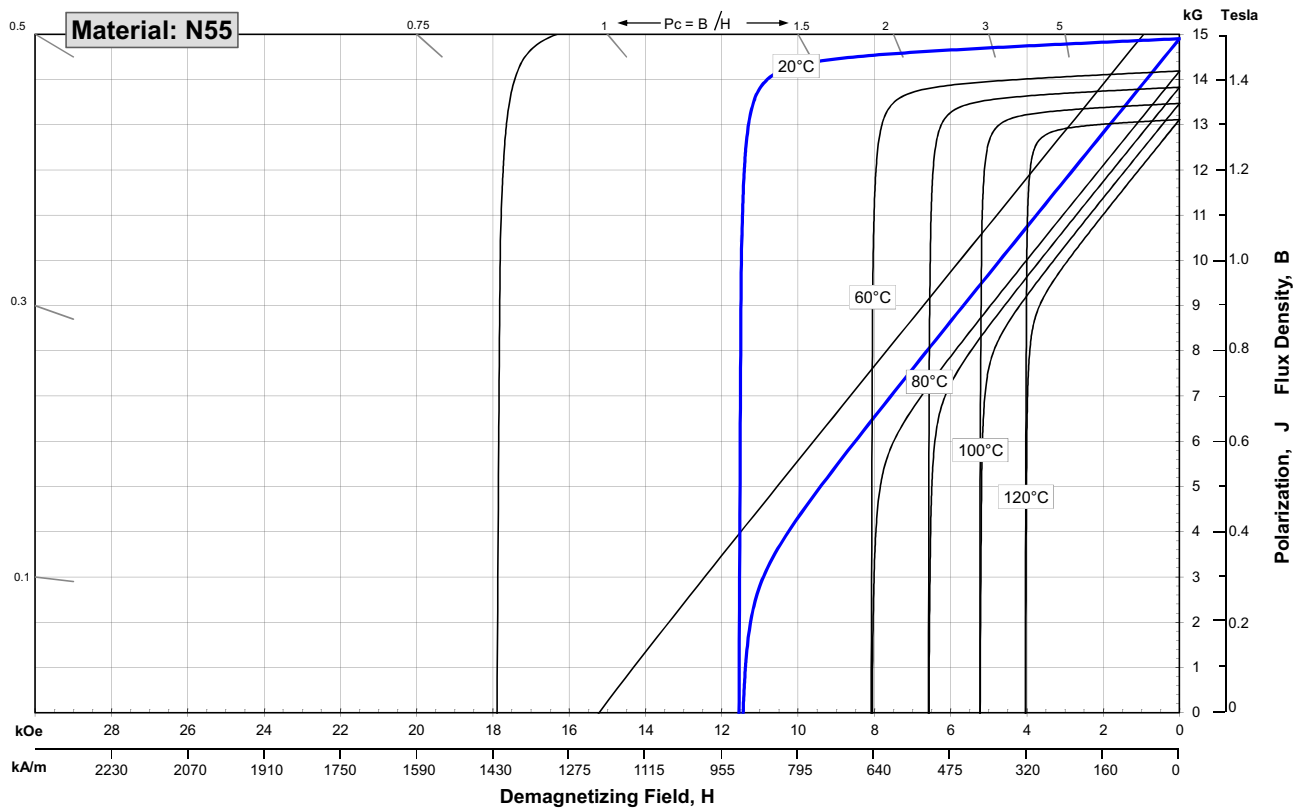
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	14,600
	mT	1460	1490	1520
H_{cB} , Coercivity	Oersteds	9,000	11,750	14,500
	kA/m	716	935	1154
H_{cJ} , Intrinsic Coercivity	Oersteds	11,000		
	kA/m	876		
BHmax , Maximum Energy Product	MGOe	52	54	56
	kJ/m ³	414	430	446

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.750
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties				
Flexural Strength	psi			41,300
	MPa			285
Density	g/cm ³			7.5
Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			180

Notes: (1) Coefficients measured between 20 and 60 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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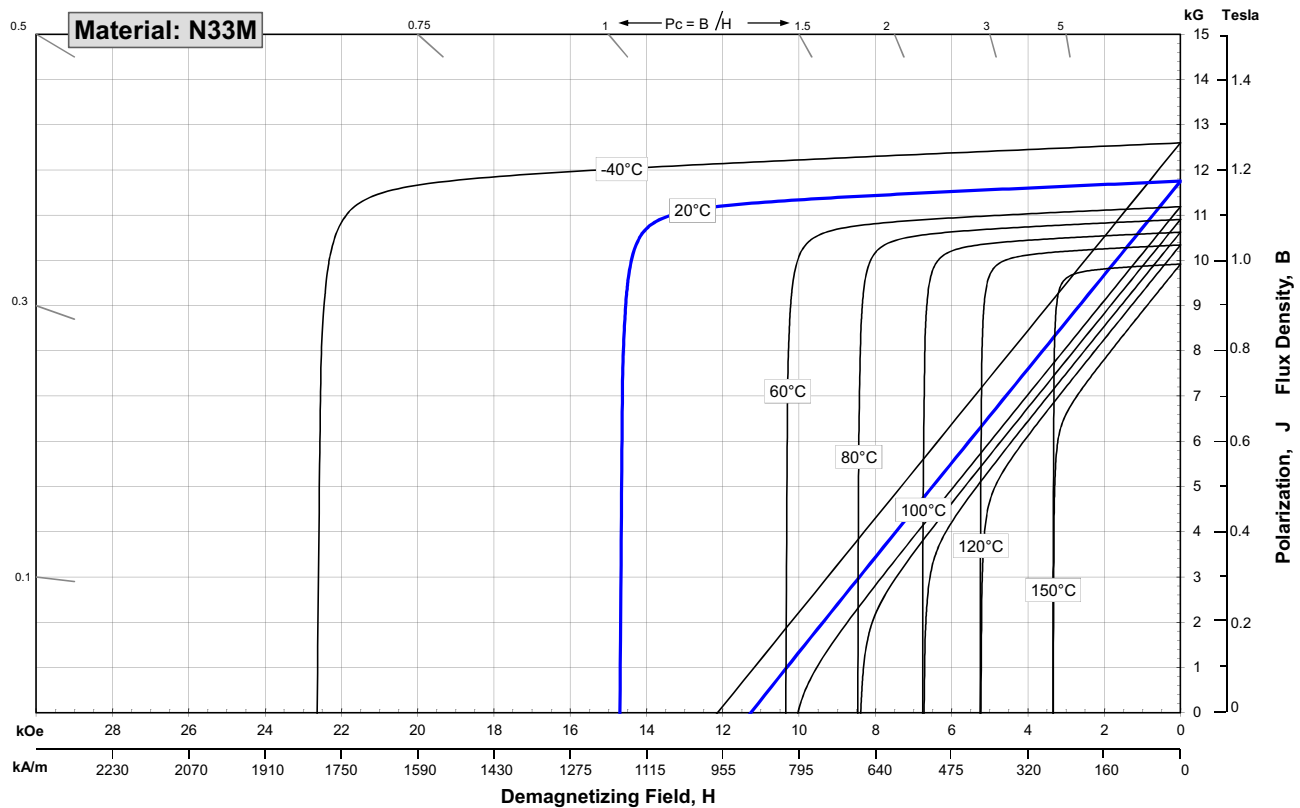
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,300
	mT	1130	1175	1220
H_{cB} , Coercivity	Oersteds	10,500	11,100	11,700
	kA/m	836	883	931
H_{cJ} , Intrinsic Coercivity	Oersteds	14,000		
	kA/m	1,114		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.675
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.5
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 100 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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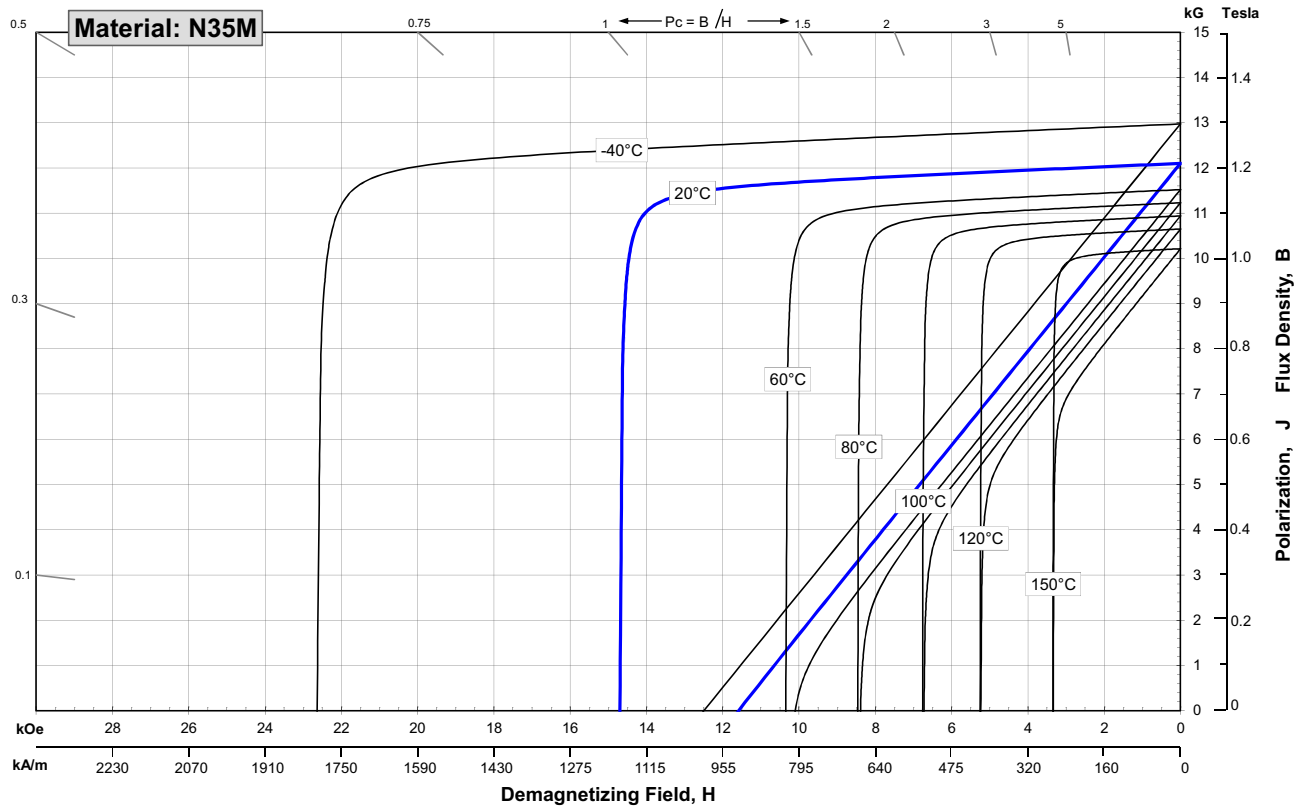
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1210	1250
H_{cB} , Coercivity	Oersteds	10,900	11,450	12,000
	kA/m	868	911	955
H_{cJ} , Intrinsic Coercivity	Oersteds	14,000		
	kA/m	1,114		
BH_{max} , Maximum Energy Product	MGOe	33	36	38
	kJ/m ³	263	283	302

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.675
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 100 °C
 (2) Between 20 and 200 °C
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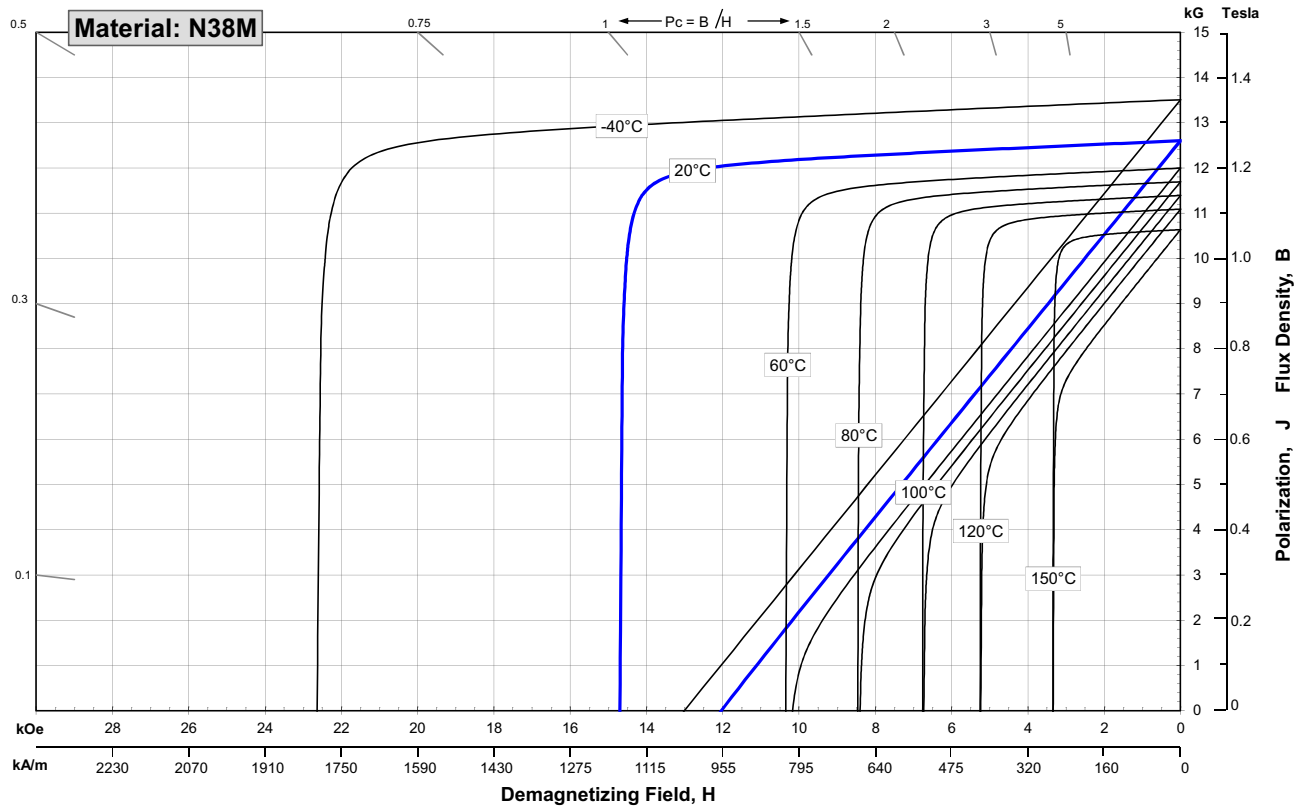
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	12,200	12,600
		mT	1220	1260	1300
H_{cB} , Coercivity		Oersteds	11,300	11,850	12,400
		kA/m	899	943	987
H_{cJ} , Intrinsic Coercivity		Oersteds	14,000		
		kA/m	1,114		
BH_{max} , Maximum Energy Product		MGOe	36	39	41
		kJ/m ³	287	307	326

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.120	
of Coercivity, α(H _{cj})		%/°C		-0.675	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		W / (m • K)		7.6	
Other Properties	Specific Heat ⁽³⁾	J / (kg • K)		460	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.5
Hardness, Vickers	Hv			620	
Electrical Resistivity, r	mW • cm			180	

Notes: (1) Coefficients measured between 20 and 100 °C
 (2) Between 20 and 200 °C
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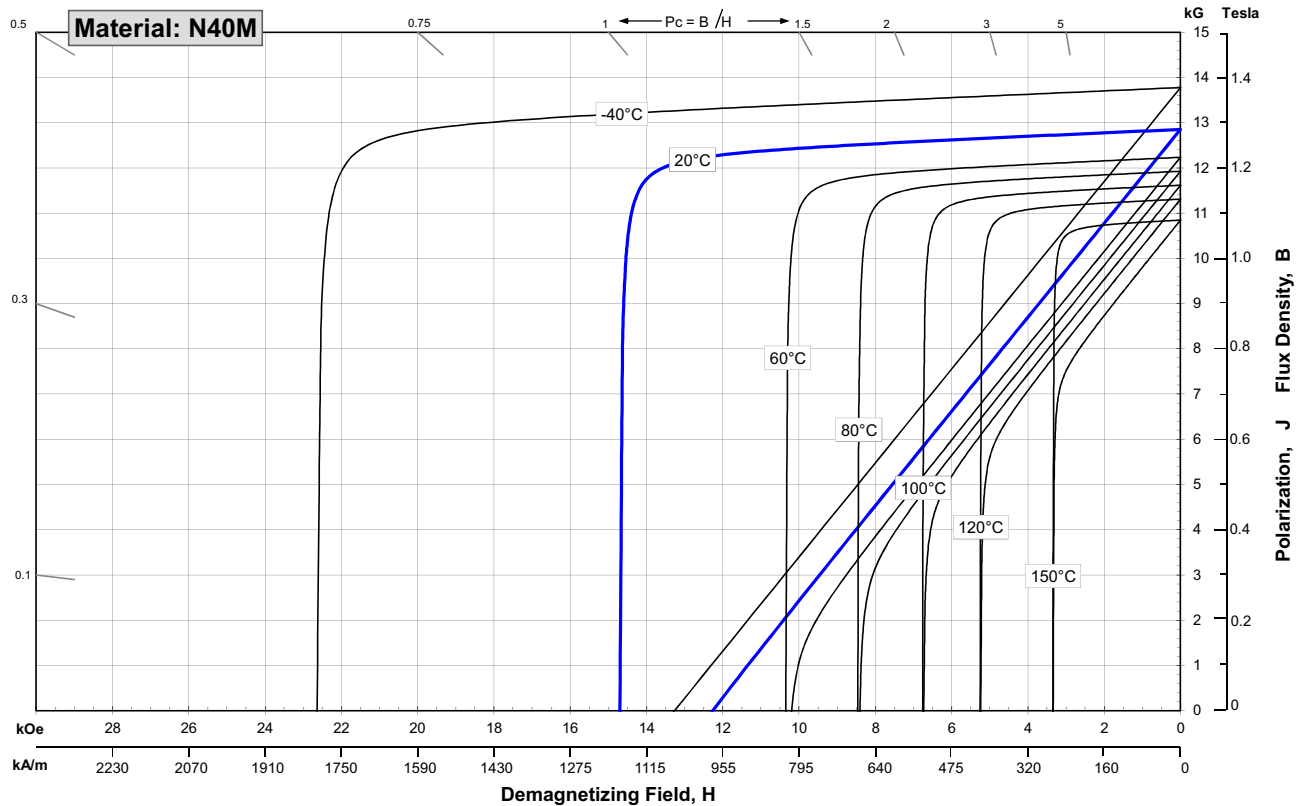
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,500
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,600	12,100	12,600
	kA/m	923	963	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	14,000		
	kA/m	1,114		
BH_{max} , Maximum Energy Product	MGOe	38	41	43
	kJ/m ³	302	322	342

Characteristic	Units	C // C ^		
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C		-0.120	
of Coercivity, α(H _{cj})	%/°C		-0.675	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 100 °C
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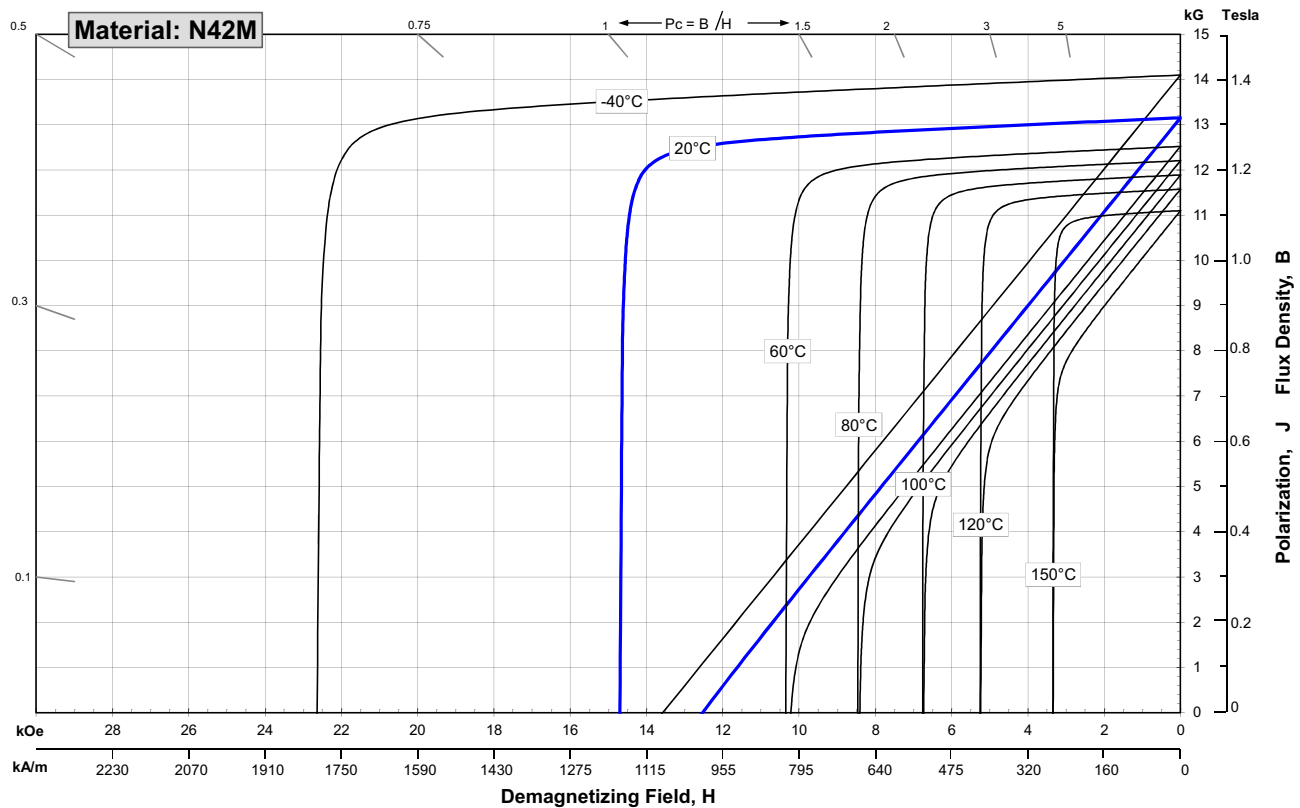
Sintered Neodymium-Iron-Boron Magnets

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Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	12,800	13,150
		mT	1280	1315	1350
H_{cB} , Coercivity		Oersteds	12,000	12,450	12,900
		kA/m	955	991	1027
H_{cJ} , Intrinsic Coercivity		Oersteds	14,000		
		kA/m	1,114		
BH_{max} , Maximum Energy Product		MGOe	40	43	45
		kJ/m ³	318	338	358

Thermal Properties	Characteristic	Units	C //	C ^
	Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C		-0.120
	of Coercivity, α(H _{cj})	%/°C		-0.675
	Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
	Thermal Conductivity	W / (m • K)		7.6
	Specific Heat ⁽³⁾	J / (kg • K)		460
	Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi		41,300
		MPa		285
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 100 °C
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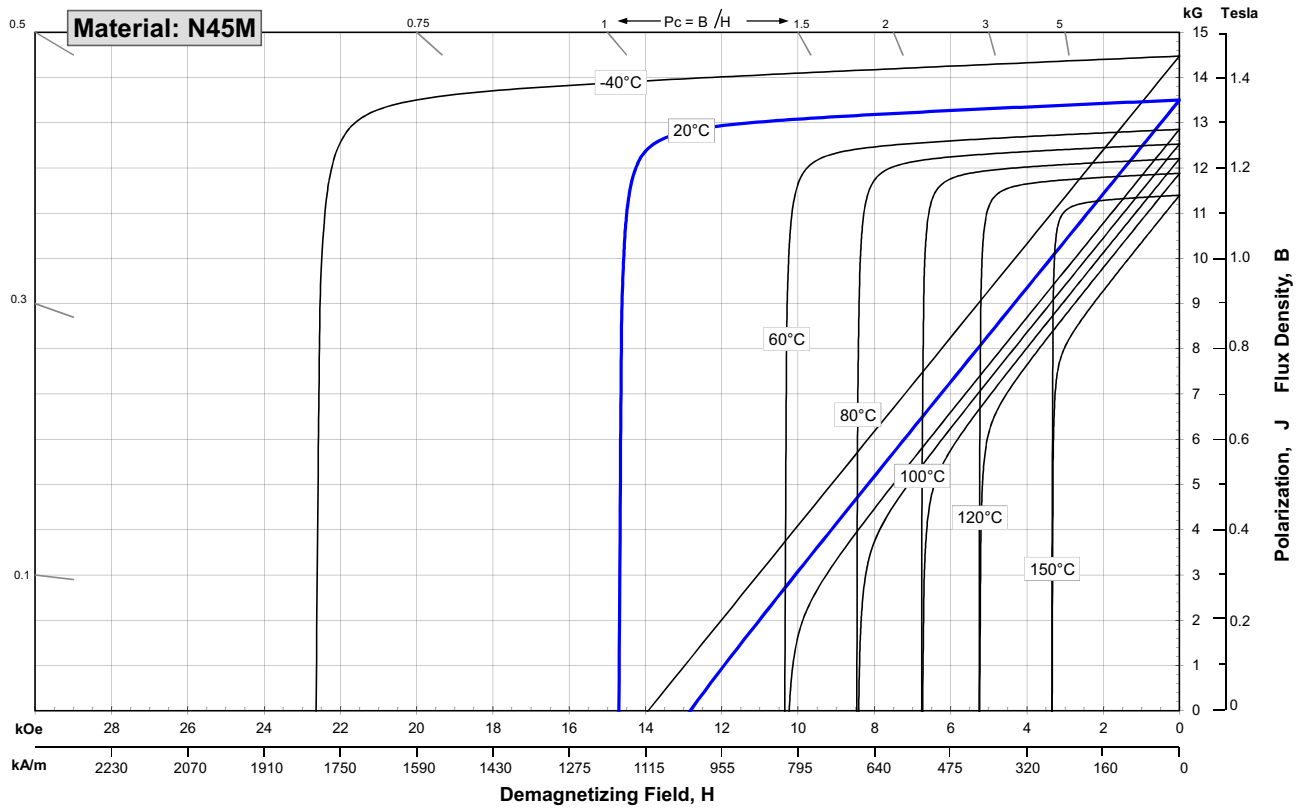
Sintered Neodymium-Iron-Boron Magnets

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Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction	Gauss		13,200	13,500
mT			1320	1350	1380
H_{cB} , Coercivity	Oersteds		12,200	12,700	13,200
	kA/m		971	1011	1050
H_{cJ} , Intrinsic Coercivity	Oersteds		14,000		
	kA/m		1,114		
BH_{max} , Maximum Energy Product	MGOe		42	45	47
	kJ/m ³		334	354	374

Thermal Properties	Characteristic	Units	C //	C ^
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾		
of Induction, α(Br)		%/°C		-0.120
of Coercivity, α(H _{cj})		%/°C		-0.675
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity		W / (m • K)		7.6
Other Properties	Specific Heat ⁽³⁾	J / (kg • K)		460
	Curie Temperature, T _c	°C		310
	Flexural Strength	psi		41,300
		MPa		285
	Density	g/cm ³		7.5
Hardness, Vickers	Hv		620	
Electrical Resistivity, r	mW • cm		180	

Notes: (1) Coefficients measured between 20 and 100 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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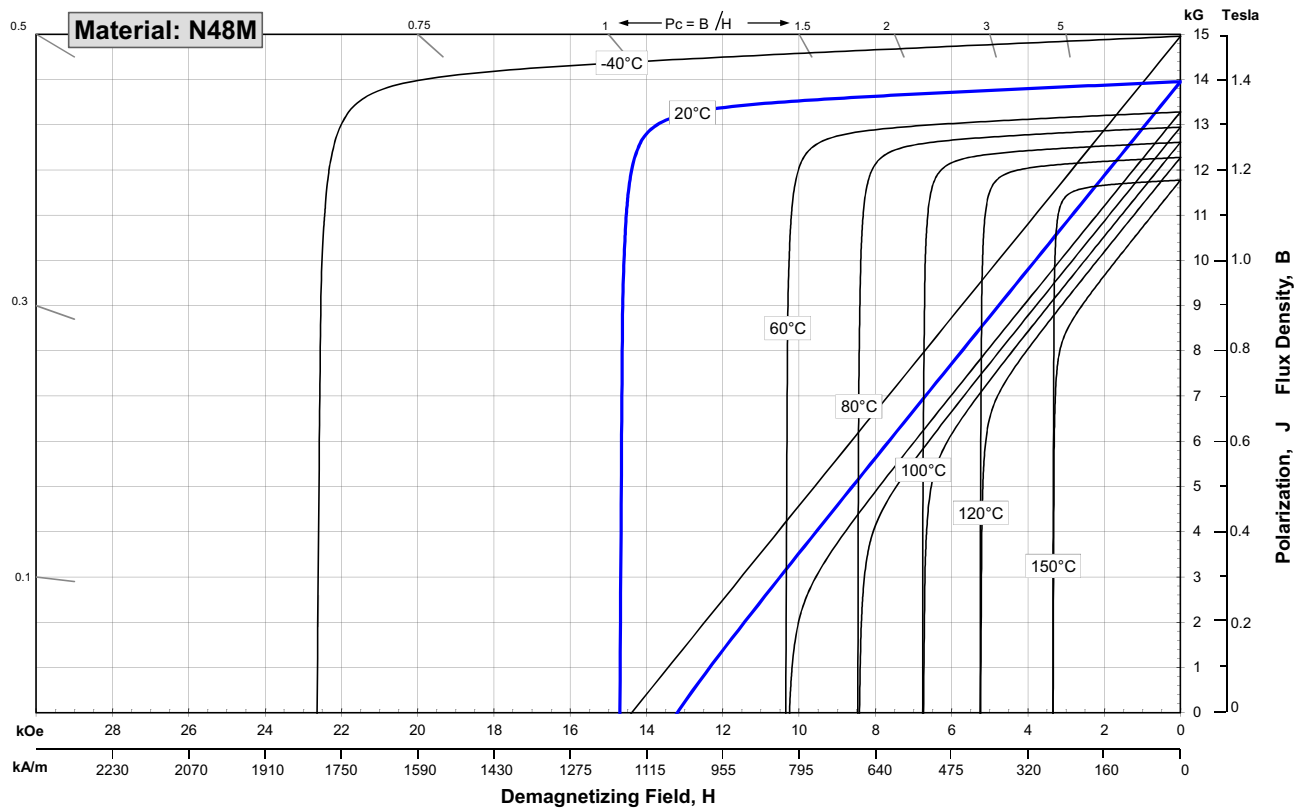
Sintered Neodymium-Iron-Boron Magnets

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Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,600	13,950
		mT	1360	1395	1430
H_{cB} , Coercivity		Oersteds	12,500	13,100	13,700
		kA/m	995	1042	1090
H_{cJ} , Intrinsic Coercivity		Oersteds	14,000		
		kA/m	1,114		
BH_{max} , Maximum Energy Product		MGOe	45	48	50
		kJ/m ³	358	378	398

Thermal Properties	Characteristic	Units	C //	C ^
	Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C		-0.120
	of Coercivity, α(H _{cj})	%/°C		-0.675
	Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
	Thermal Conductivity	W / (m · K)		7.6
	Specific Heat ⁽³⁾	J / (kg · K)		460
	Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi		41,300
		MPa		285
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW · cm		180

Notes: (1) Coefficients measured between 20 and 100 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

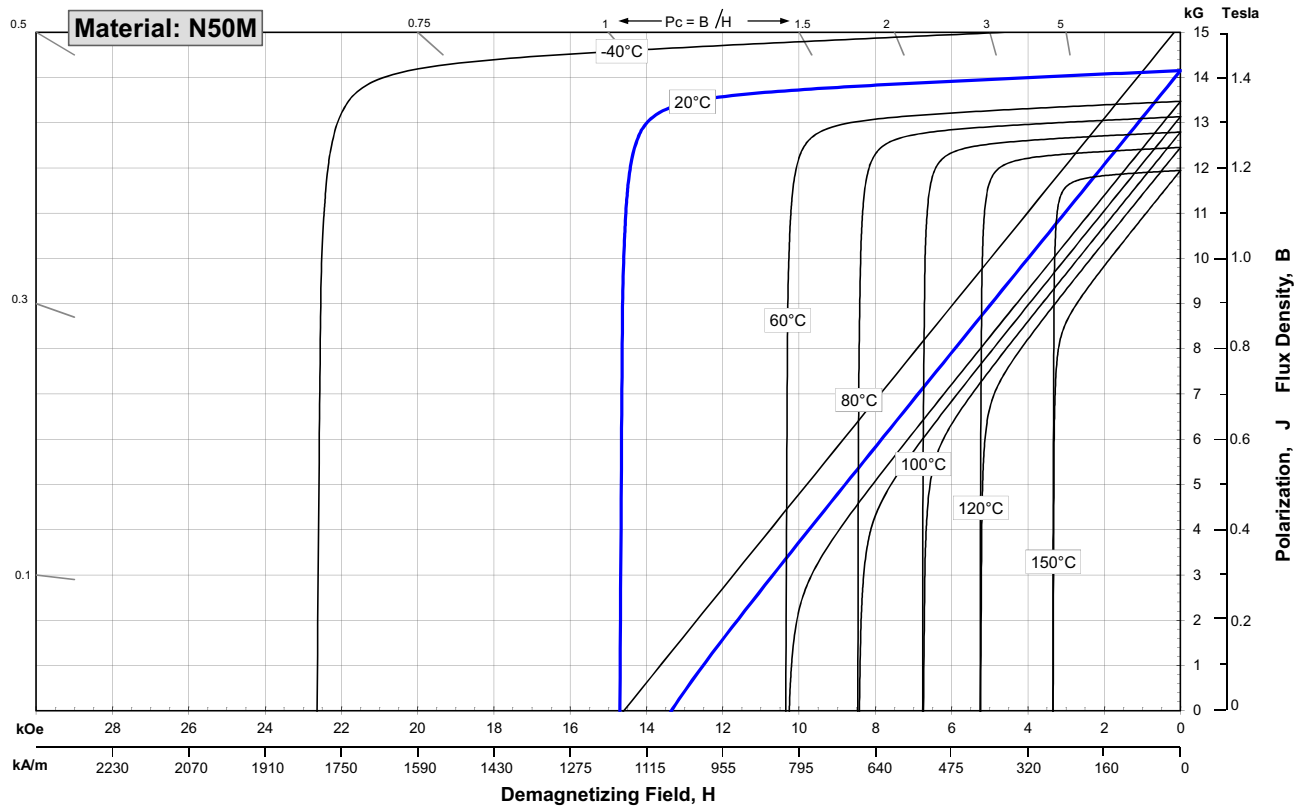
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	13,900
	mT	1390	1415	1440
H_{cB} , Coercivity	Oersteds	13,000	13,400	13,800
	kA/m	1035	1066	1098
H_{cJ} , Intrinsic Coercivity	Oersteds	14,000		
	kA/m	1,114		
BH_{max} , Maximum Energy Product	MGOe	47	49	51
	kJ/m ³	374	390	406

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.675
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties				
Flexural Strength	psi			41,300
	MPa			285
Density	g/cm ³			7.5
Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			180

Notes: (1) Coefficients measured between 20 and 100 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

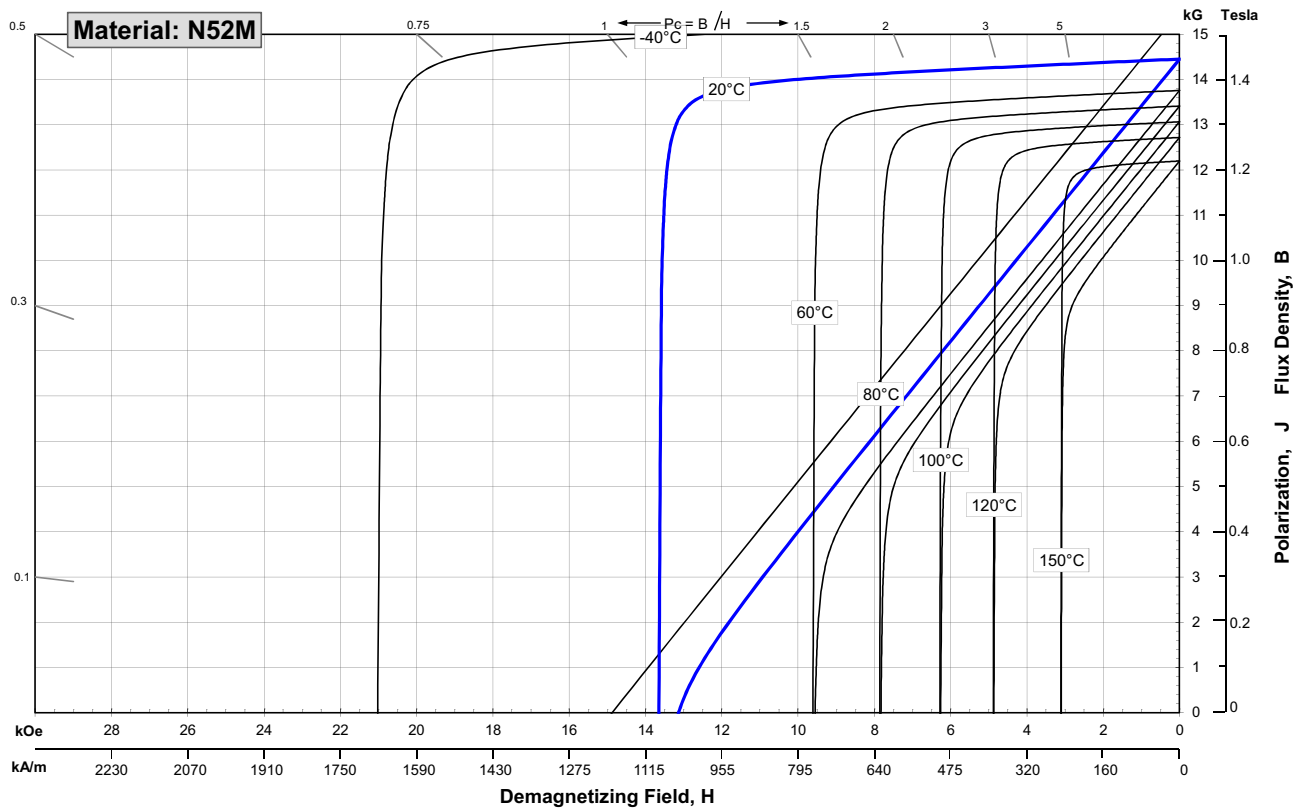
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	14,200
	mT	1420	1445	1470
H_{cB} , Coercivity	Oersteds	12,500	13,250	14,000
	kA/m	995	1054	1114
H_{cJ} , Intrinsic Coercivity	Oersteds	13,000		
	kA/m	1,035		
BH_{max} , Maximum Energy Product	MGOe	49	51	53
	kJ/m ³	390	406	422

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.675
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW • cm

Notes: (1) Coefficients measured between 20 and 100 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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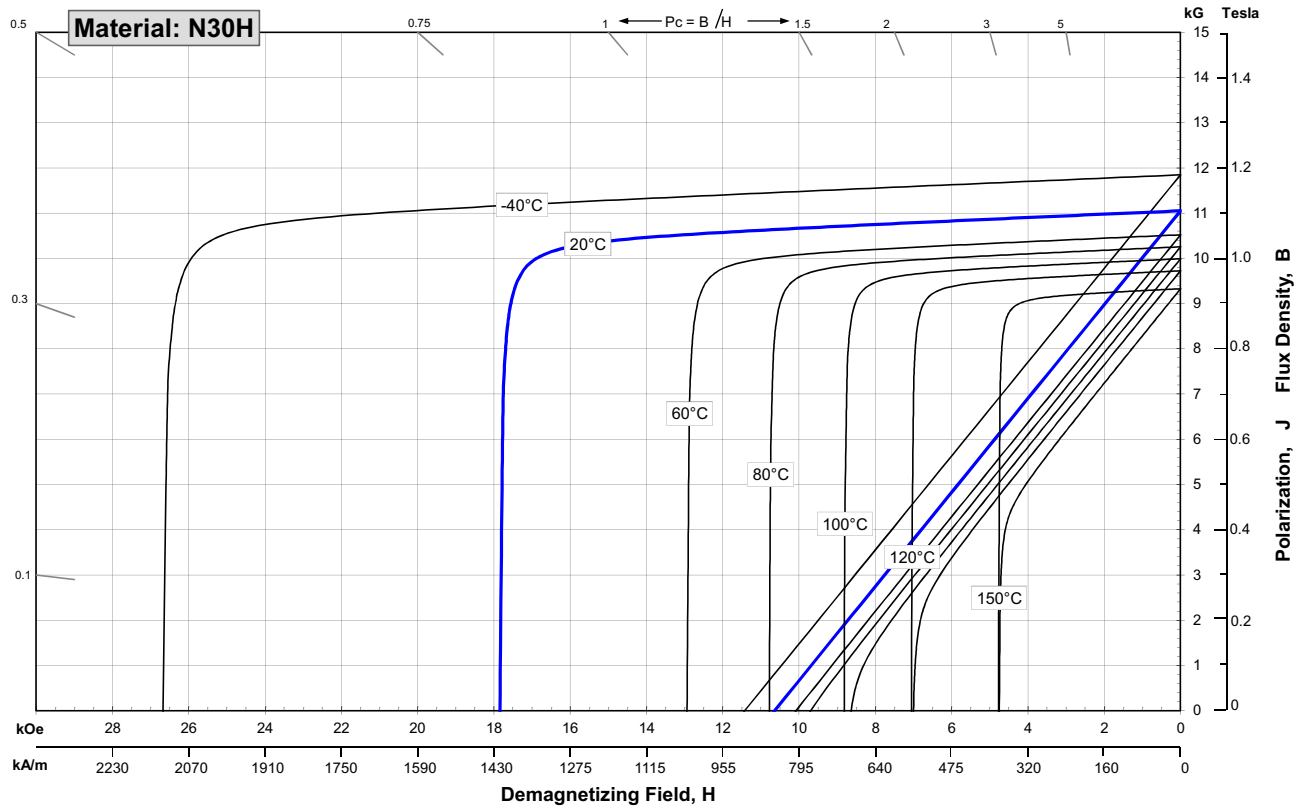
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	10,800
	mT	1080	1105	1130
H_{cB} , Coercivity	Oersteds	10,000	10,400	10,800
	kA/m	796	828	859
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	28	30	31
	kJ/m ³	223	235	247

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.605
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW • cm

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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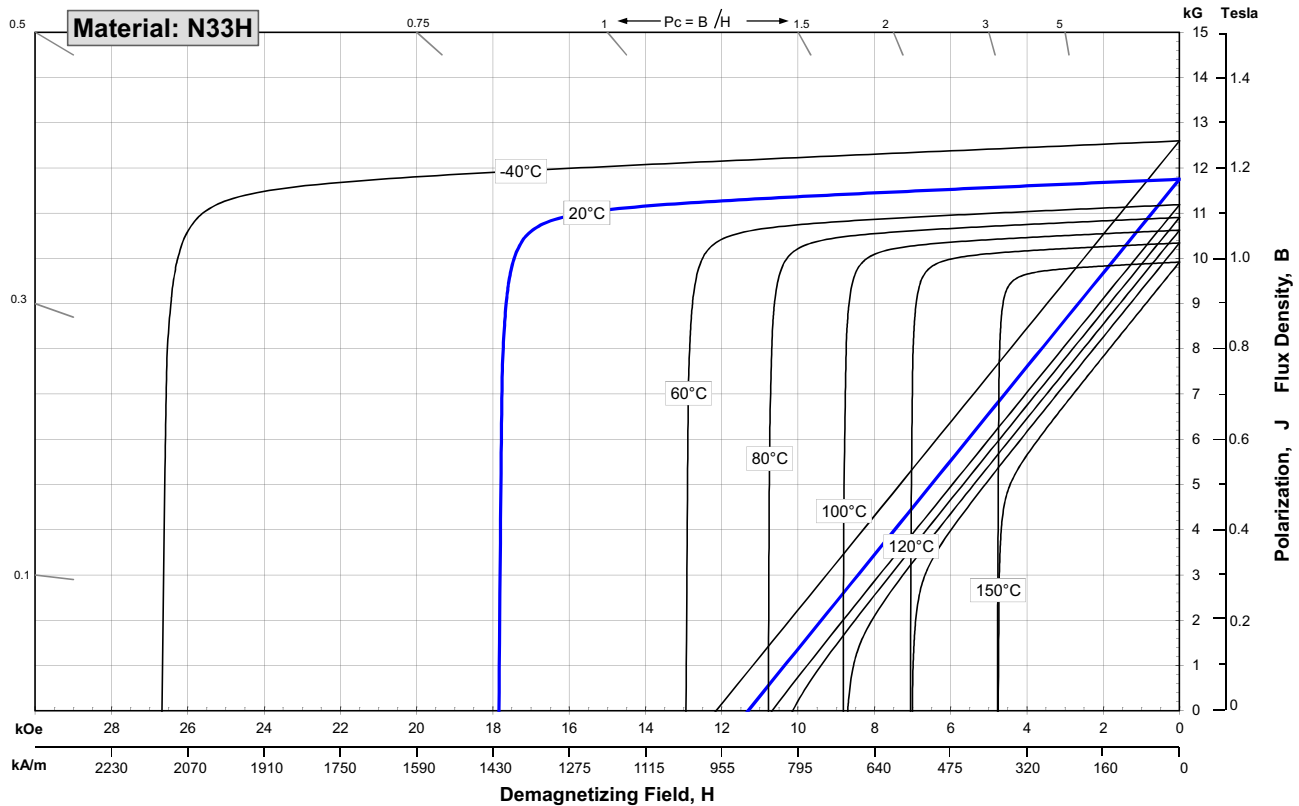
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,300
	mT	1130	1175	1220
H_{cB} , Coercivity	Oersteds	10,500	11,100	11,700
	kA/m	836	883	931
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.605	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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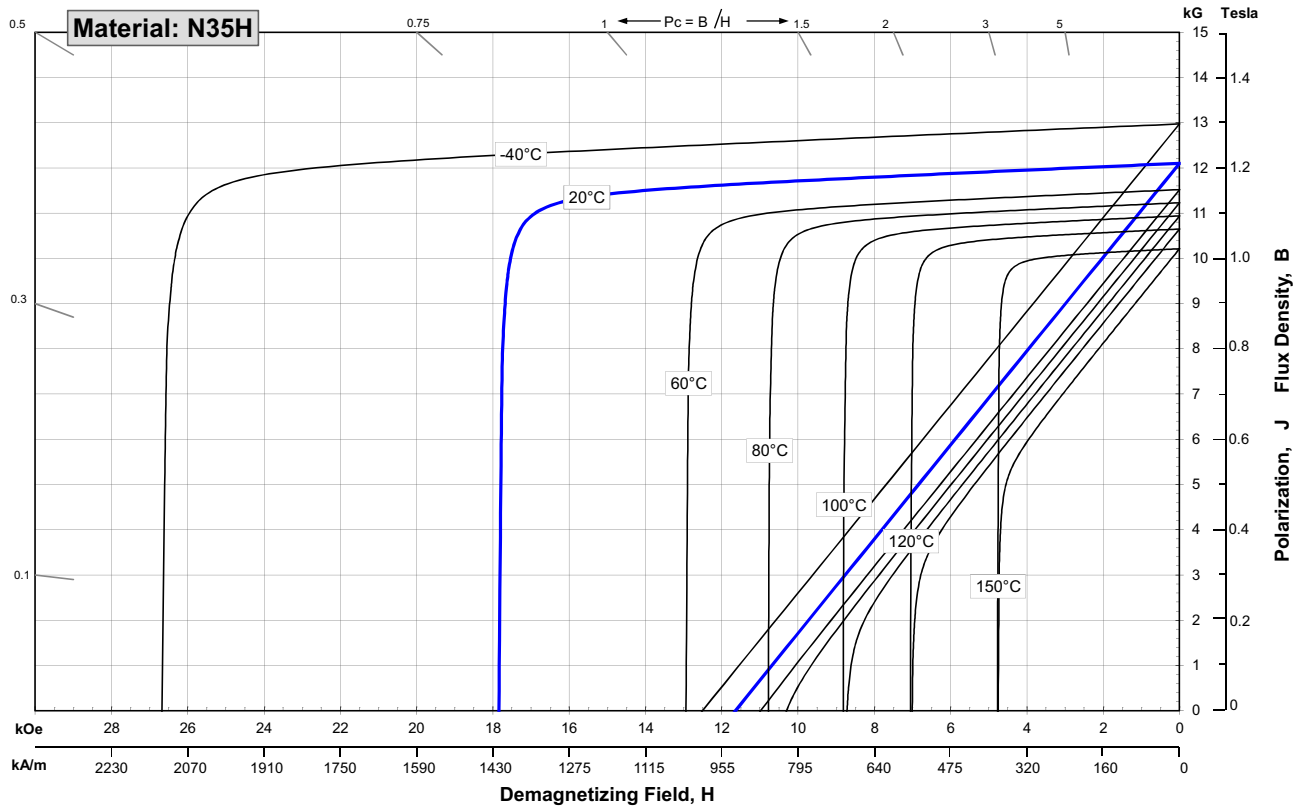
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1210	1250
H_{cB} , Coercivity	Oersteds	10,900	11,450	12,000
	kA/m	868	911	955
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	33	36	38
	kJ/m ³	263	283	302

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.605
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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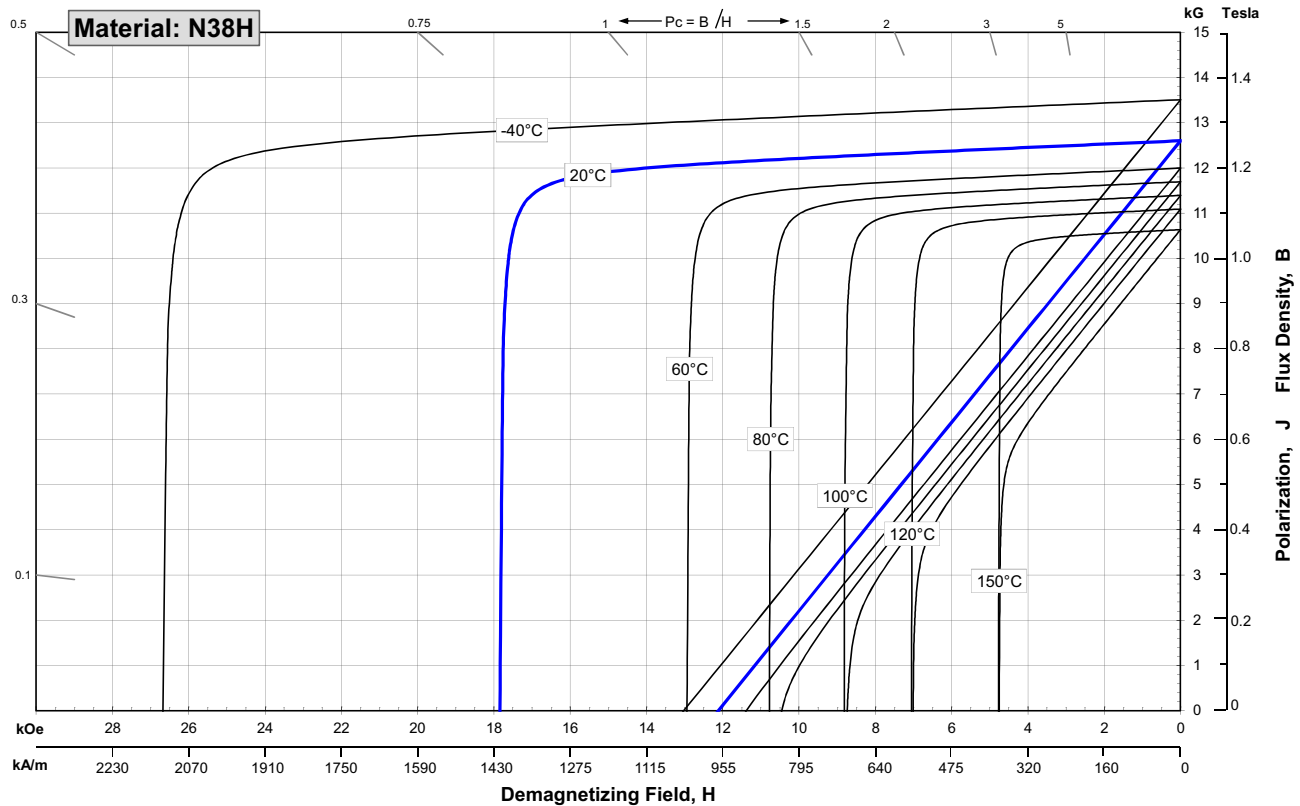
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,200
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,300	11,850	12,400
	kA/m	899	943	987
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.605	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
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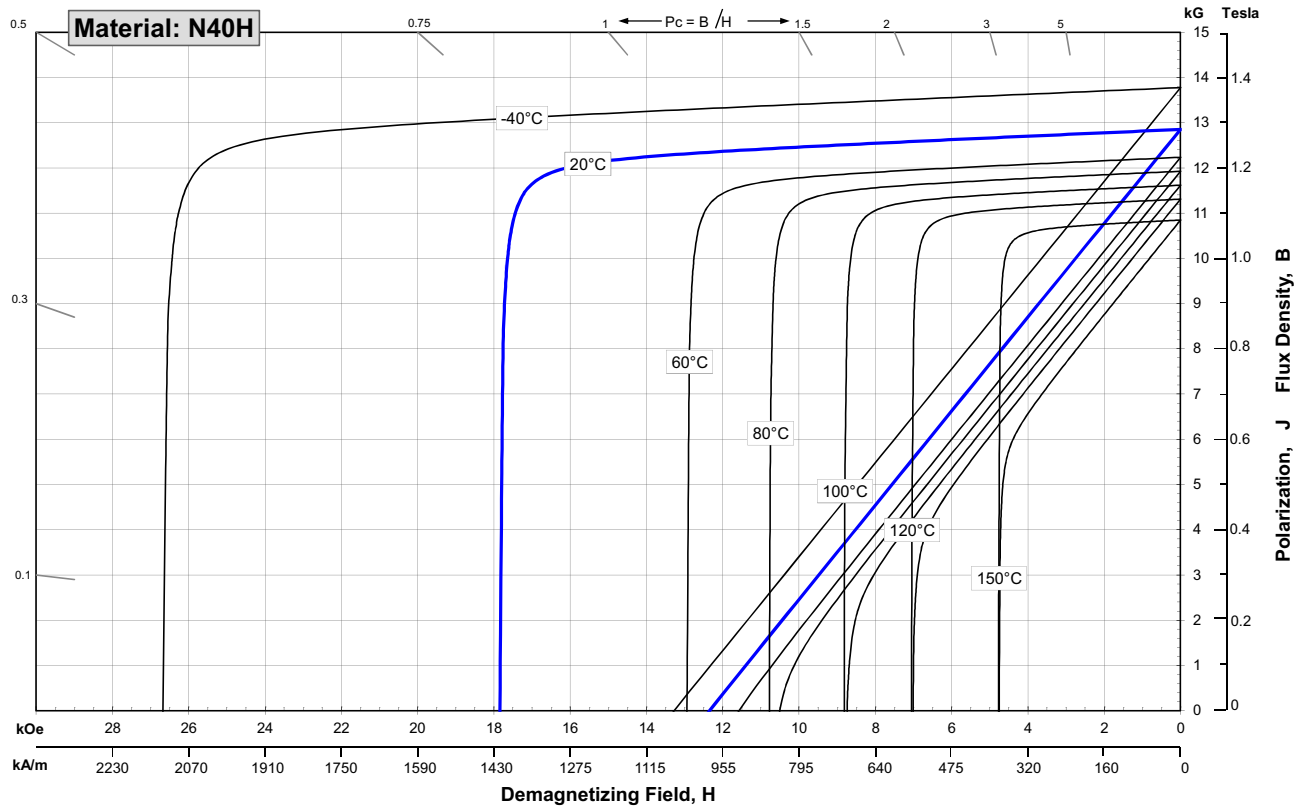
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,500
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,600	12,100	12,600
	kA/m	923	963	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	38	41	43
	kJ/m ³	302	322	342

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.605
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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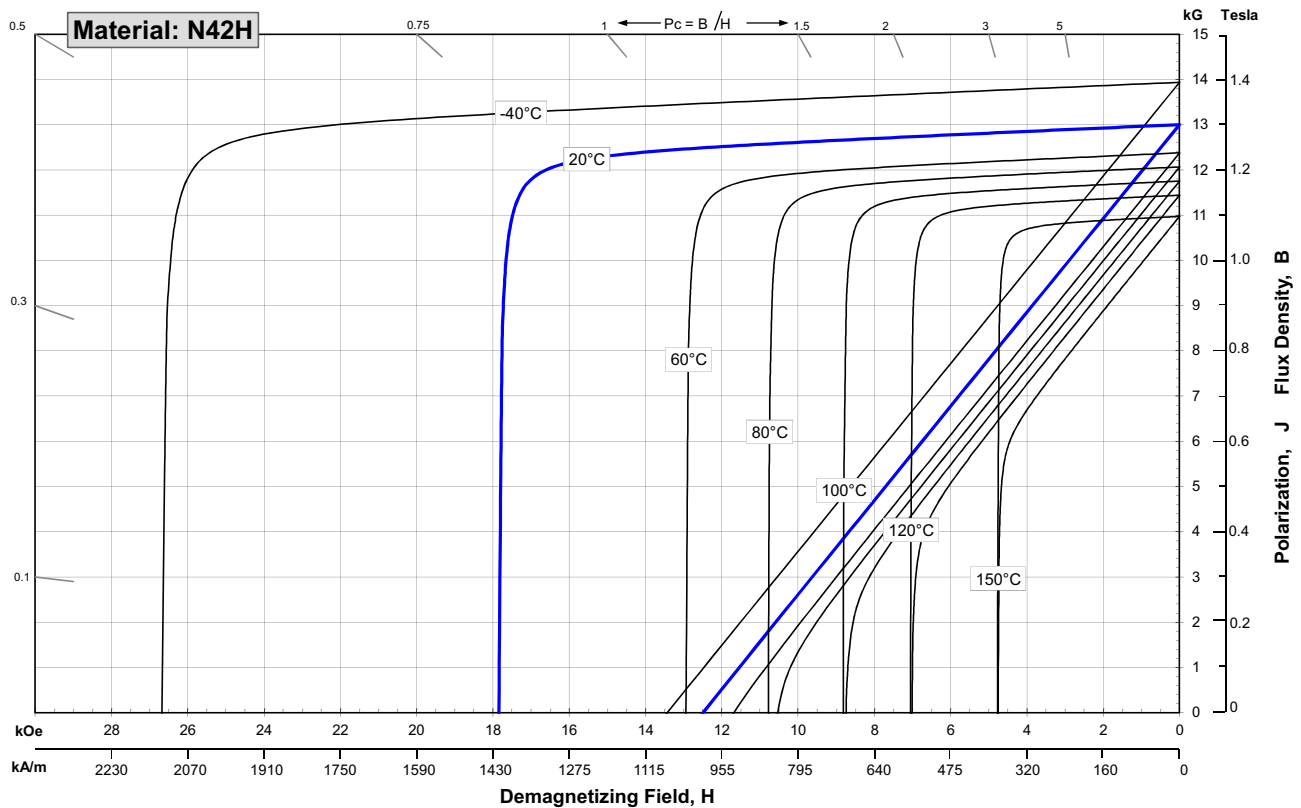
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,800	13,000	13,200
	mT	1280	1300	1320
H_{cB} , Coercivity	Oersteds	12,000	12,300	12,600
	kA/m	955	979	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	40	42	43
	kJ/m ³	318	330	342

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.605
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.5
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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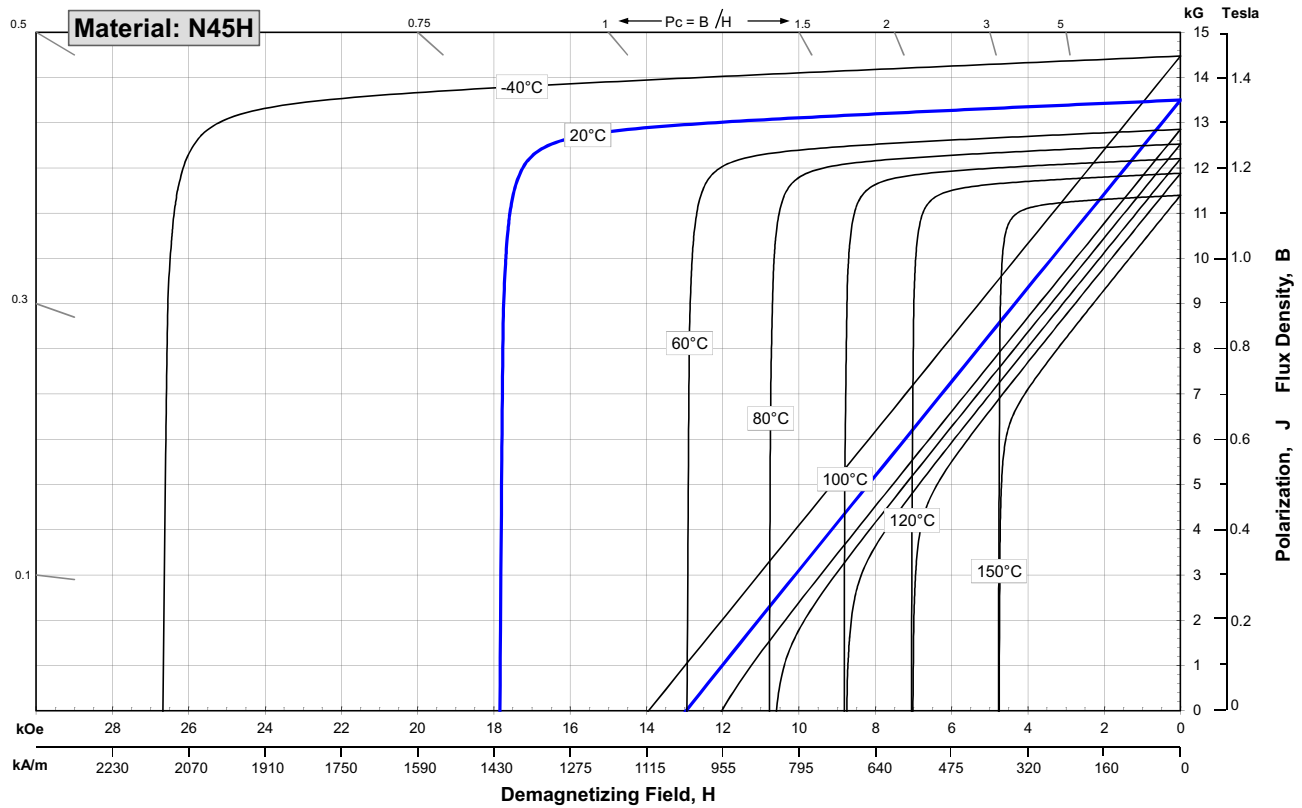
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	13,200
	mT	1320	1350	1380
H_{cB} , Coercivity	Oersteds	12,200	12,700	13,200
	kA/m	971	1011	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	42	45	47
	kJ/m ³	334	354	374

Characteristic	Units	C // C ^	
		Reversible Temperature Coefficients ⁽¹⁾	
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.605
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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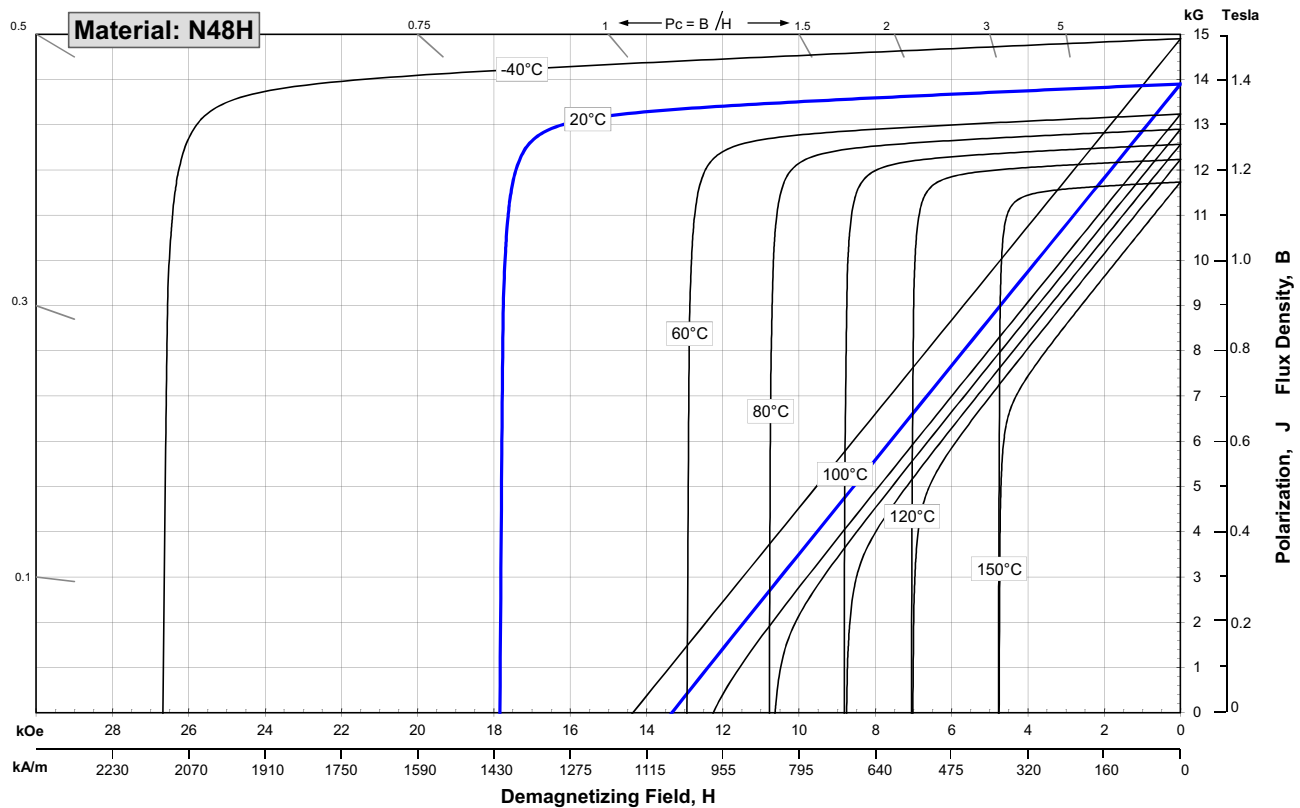
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,900	14,200
	mT	1360	1390	1420
H_{cB} , Coercivity	Oersteds	12,700	13,150	13,600
	kA/m	1011	1046	1082
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	45	48	50
	kJ/m ³	358	378	398

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.605	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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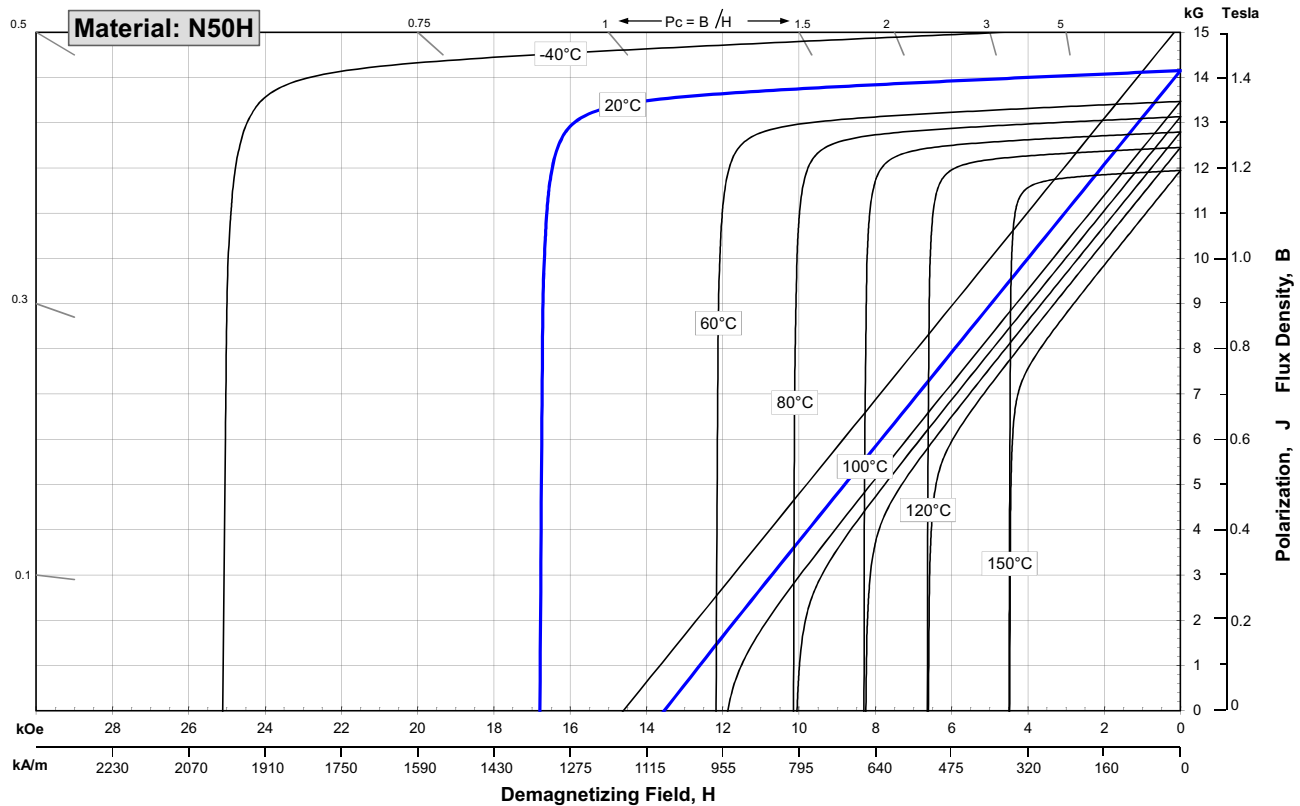
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	13,900
	mT	1390	1415	1440
H_{cB} , Coercivity	Oersteds	13,000	13,400	13,800
	kA/m	1035	1066	1098
H_{cJ} , Intrinsic Coercivity	Oersteds	16,000		
	kA/m	1,274		
BH_{max} , Maximum Energy Product	MGOe	47	49	51
	kJ/m ³	374	390	406

Characteristic	Units	C // C ^		
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C		-0.120	
of Coercivity, α(H _{cj})	%/°C		-0.605	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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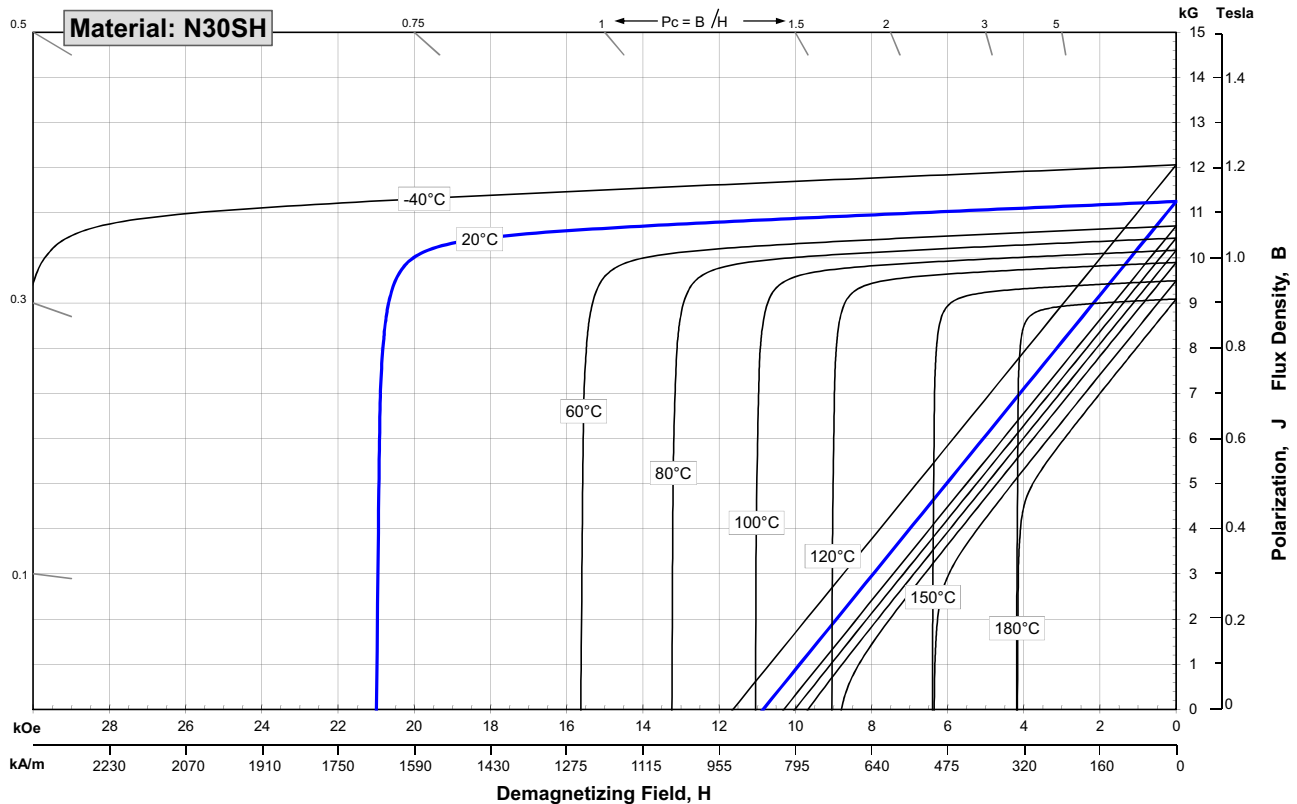
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	10,800	11,250	11,700
	mT	1080	1125	1170
H_{CB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	811	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BHmax , Maximum Energy Product	MGOe	28	31	33
	kJ/m ³	223	243	263

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.535	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m · K)	7.6	
Specific Heat ⁽³⁾	J / (kg · K)	460	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW · cm	180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

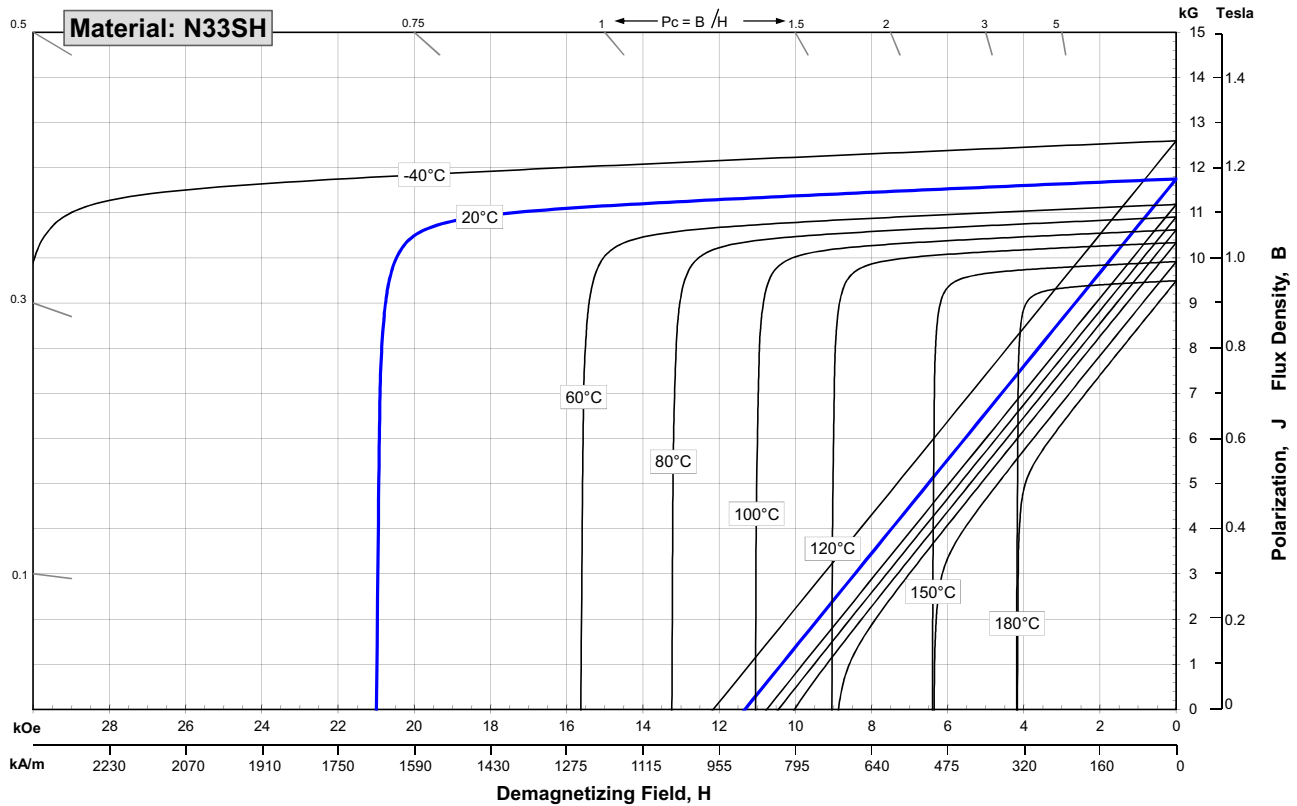
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,300	11,750	12,200
	mT	1130	1175	1220
H_{CB} , Coercivity	Oersteds	10,600	11,150	11,700
	kA/m	844	887	931
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.535	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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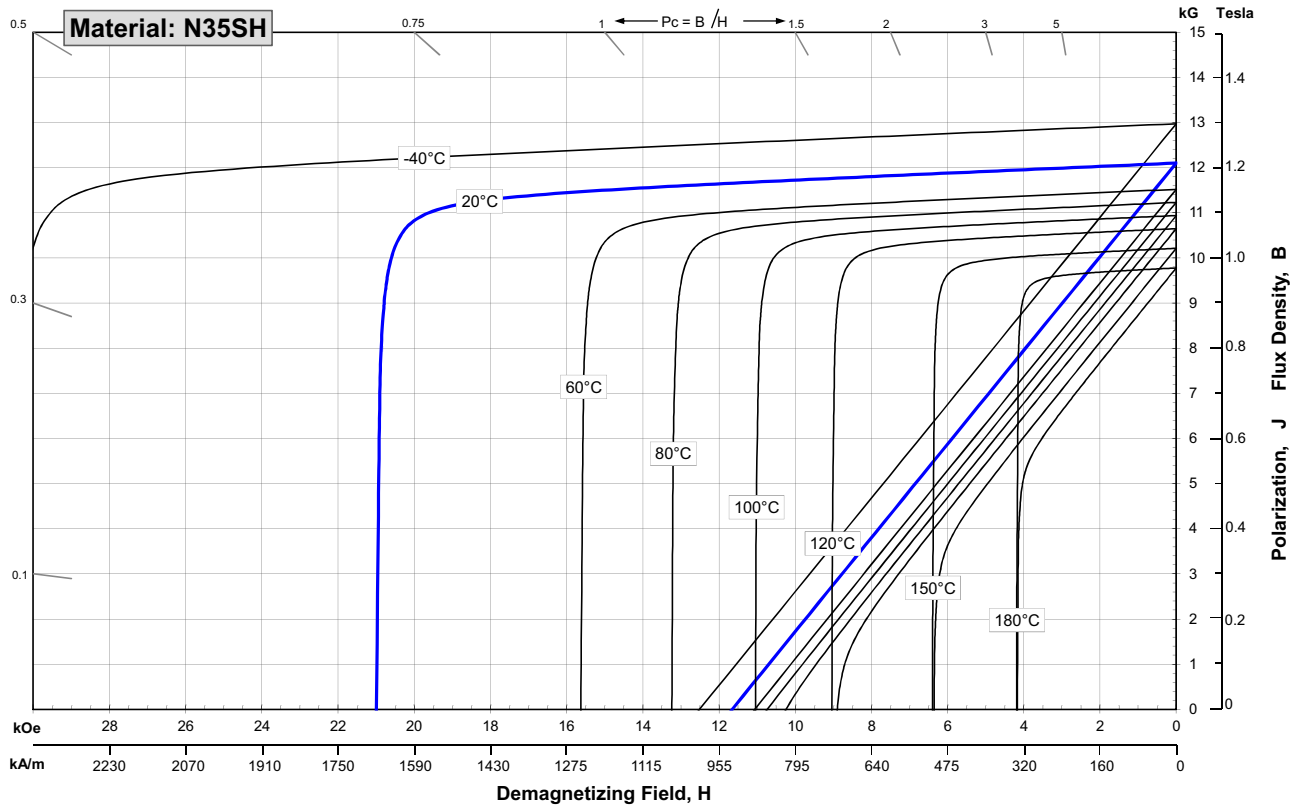
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,700	12,100	12,500
	mT	1170	1210	1250
H_{cB} , Coercivity	Oersteds	11,000	11,500	12,000
	kA/m	876	915	955
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	33	36	38
	kJ/m ³	263	283	302

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.535	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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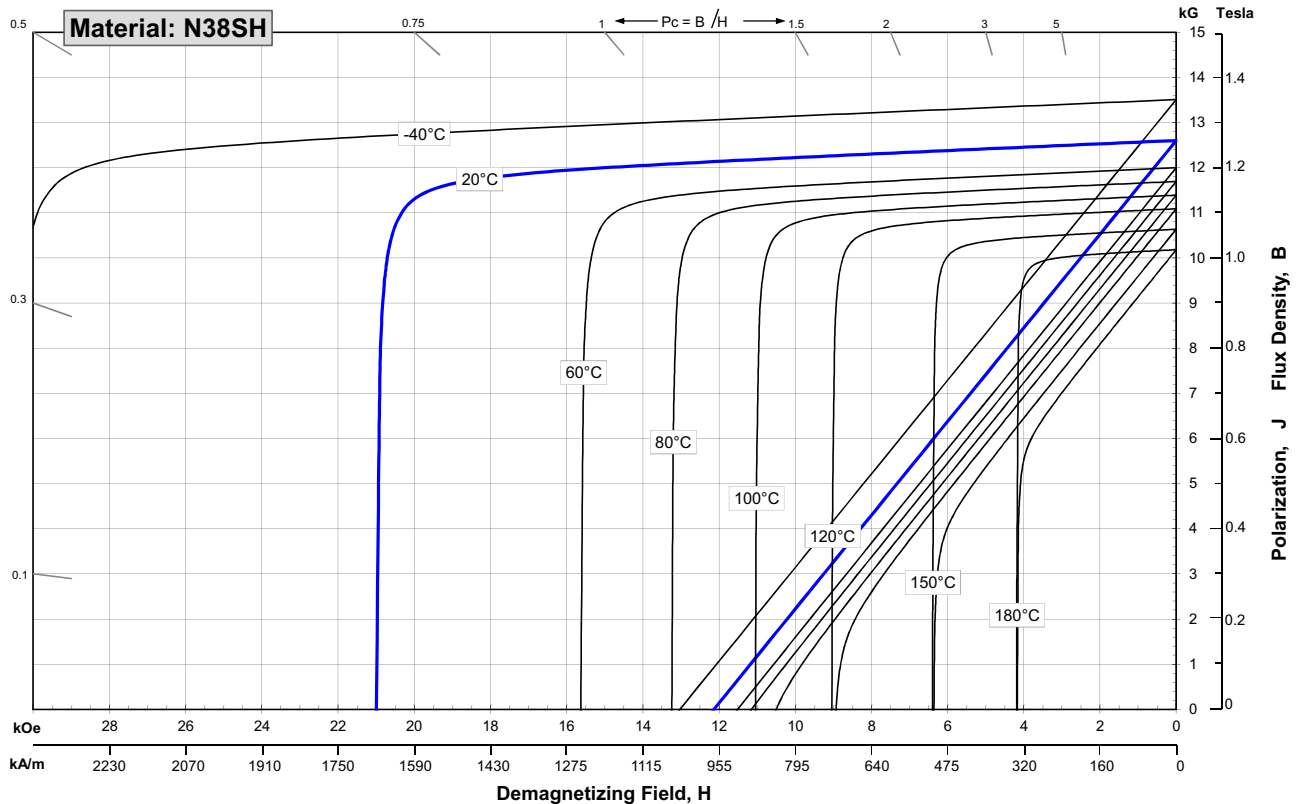
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,200
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,400	11,900	12,400
	kA/m	907	947	987
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.535
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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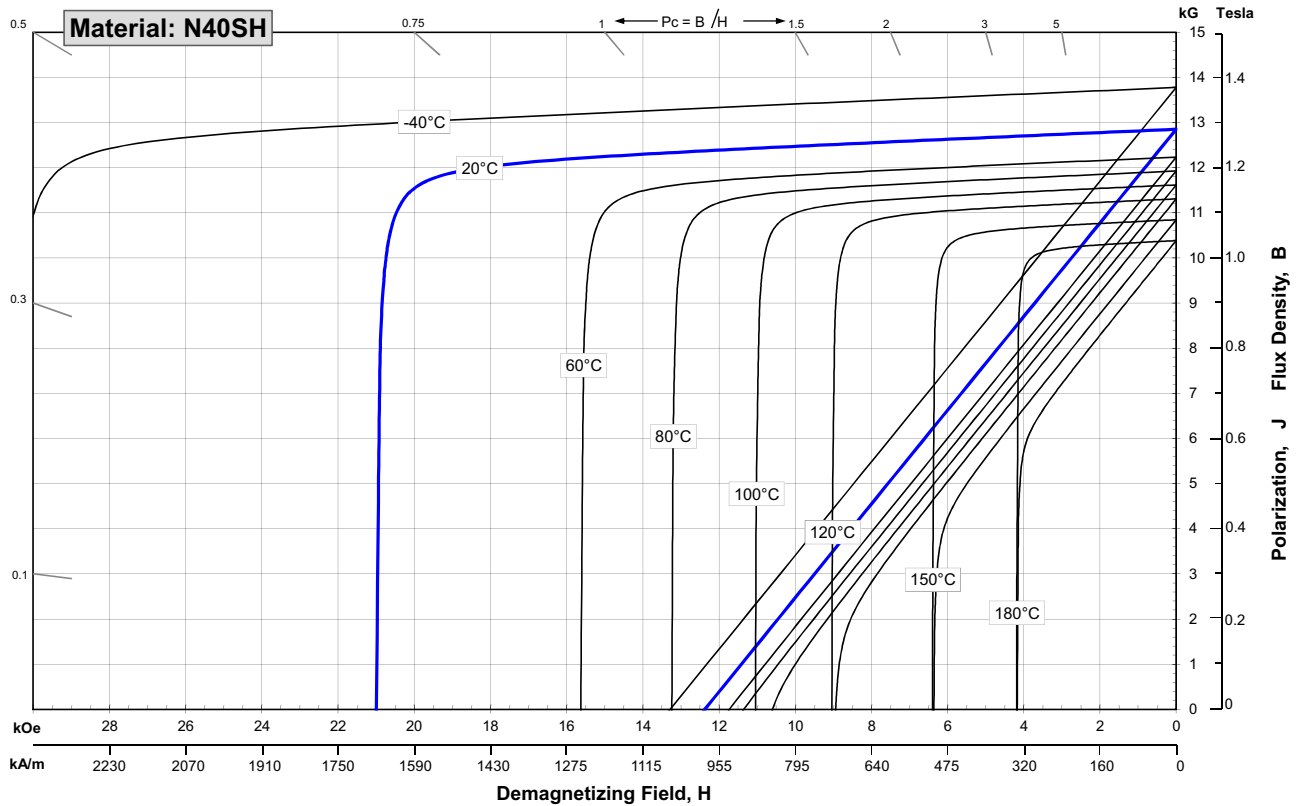
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,500
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,800	12,200	12,600
	kA/m	939	971	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	38	41	43
	kJ/m ³	302	322	342

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.535
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

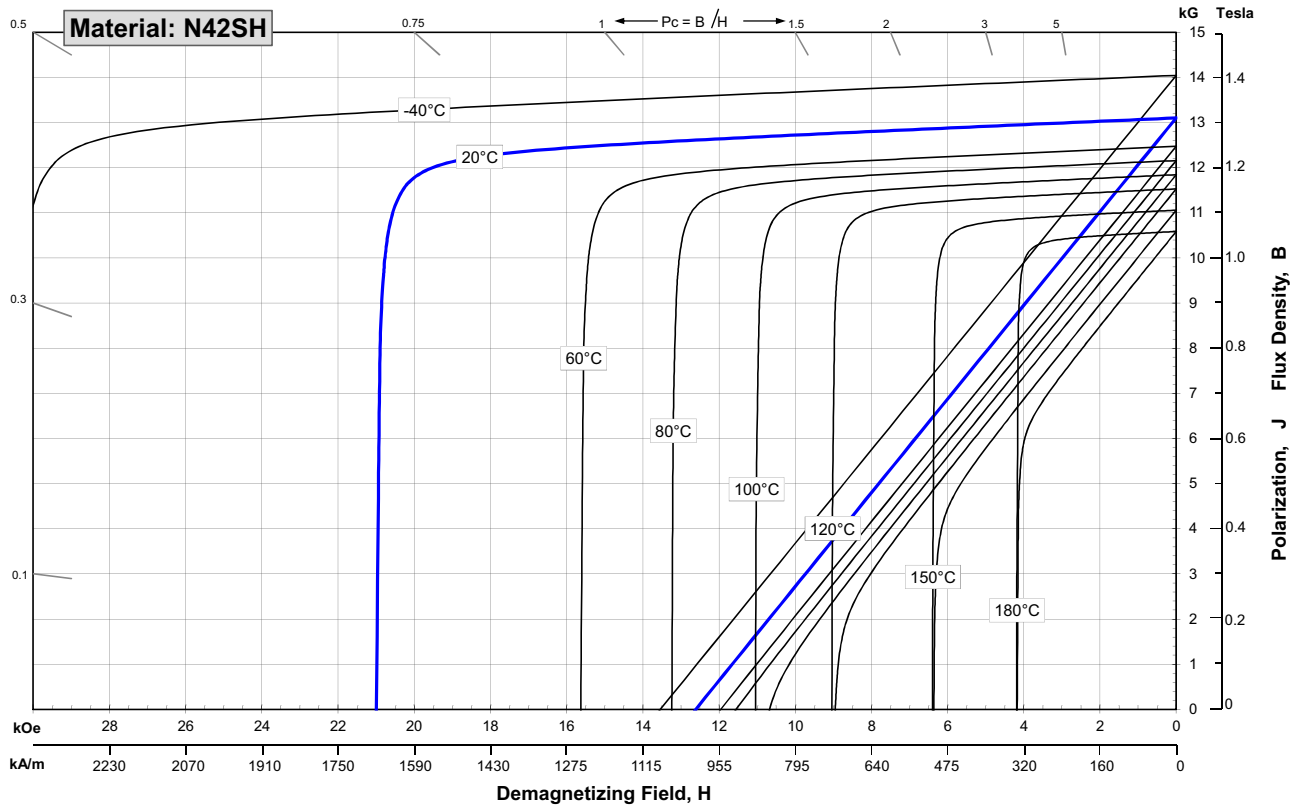
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,800
	mT	1280	1310	1340
H_{cB} , Coercivity	Oersteds	12,000	12,400	12,800
	kA/m	955	987	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	39	42	44
	kJ/m ³	310	330	350

Characteristic	Units	C // C ^	
		Reversible Temperature Coefficients ⁽¹⁾	
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.535
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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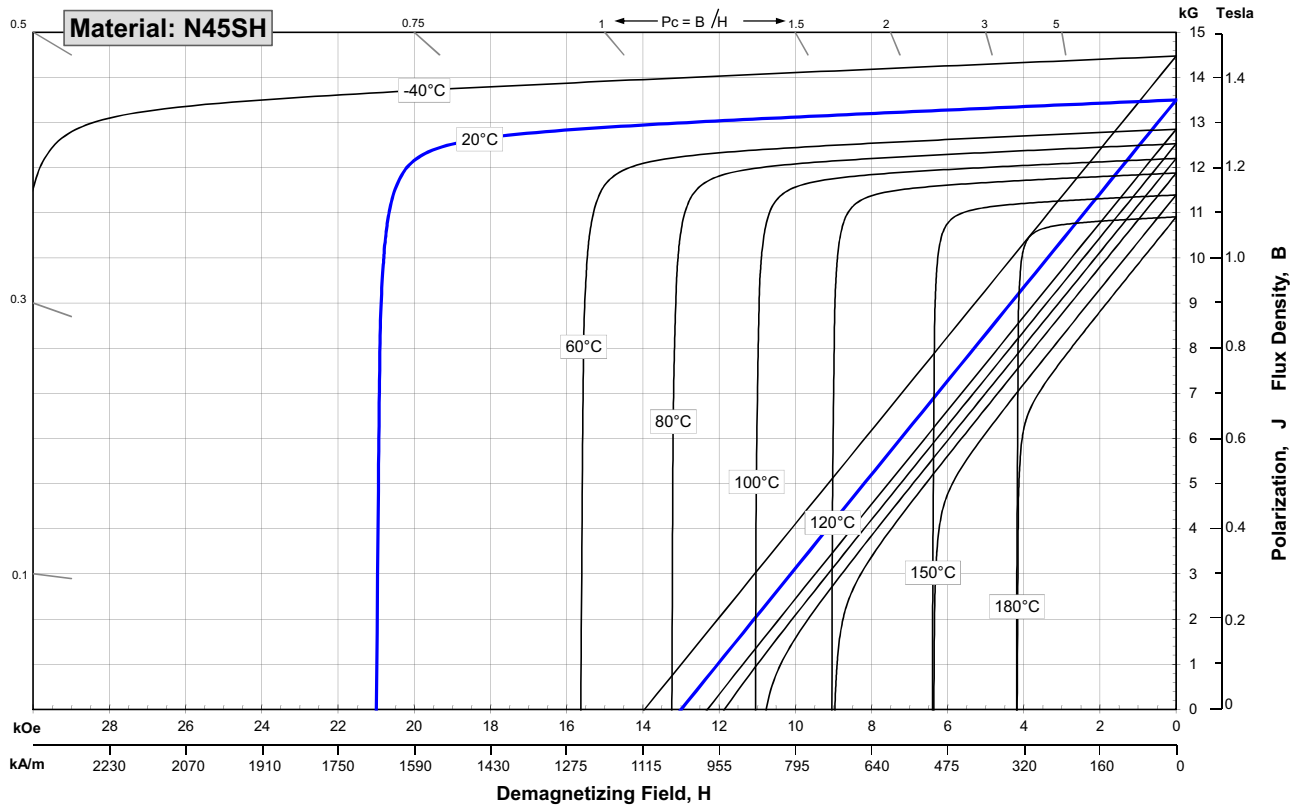
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,200	13,500
		mT	1320	1350	1380
H_{cB} , Coercivity		Oersteds	12,300	12,750	13,200
		kA/m	979	1015	1050
H_{cJ} , Intrinsic Coercivity		Oersteds	20,000		
		kA/m	1,592		
BH_{max} , Maximum Energy Product		MGOe	43	45	46
		kJ/m ³	342	354	366

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.120	
of Coercivity, α(H _{cj})		%/°C		-0.535	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		W / (m • K)		7.6	
Other Properties	Specific Heat ⁽³⁾	J / (kg • K)		460	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.5
Hardness, Vickers	Hv			620	
Electrical Resistivity, r	mW • cm			180	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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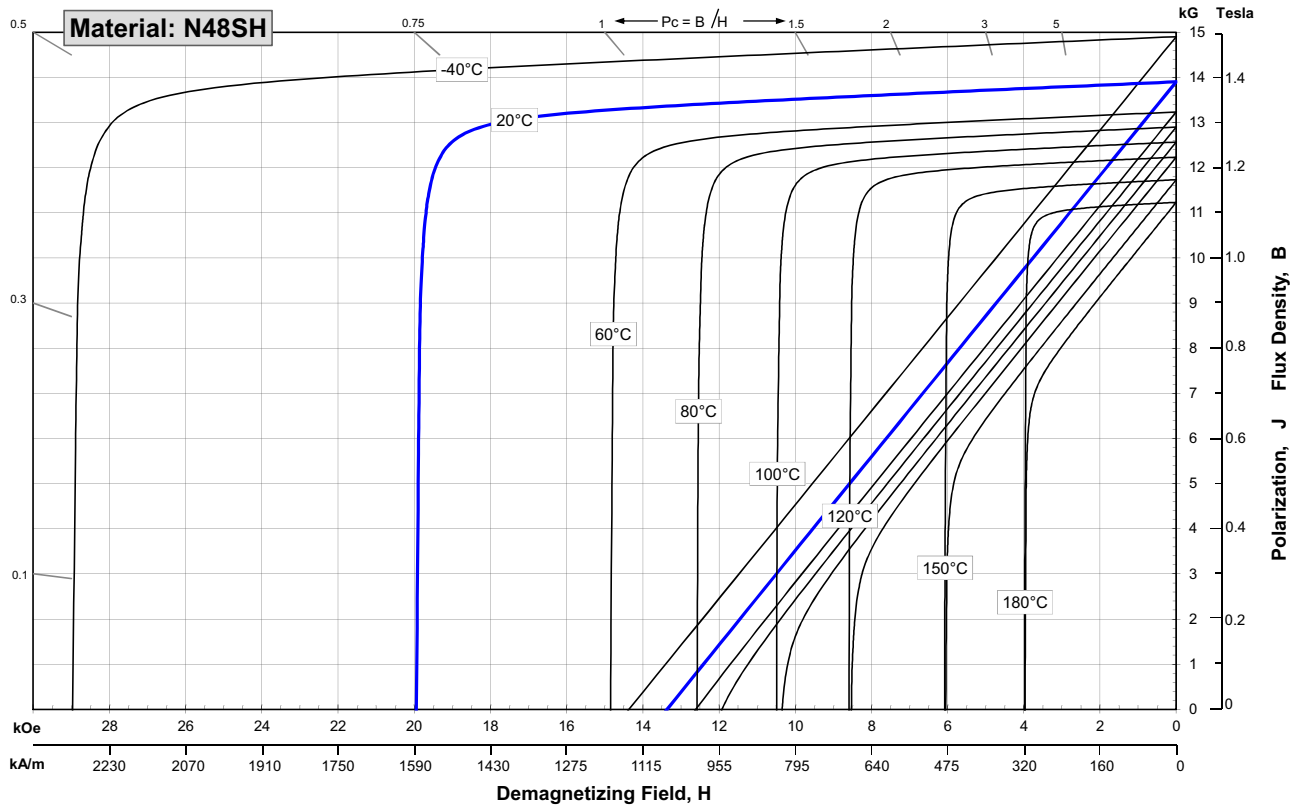
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	13,600
	mT	1360	1390	1420
H_{cB} , Coercivity	Oersteds	12,500	13,050	13,600
	kA/m	995	1039	1082
H_{cJ} , Intrinsic Coercivity	Oersteds	19,000		
	kA/m	1,512		
BHmax , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	C // C ^		
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C		-0.120	
of Coercivity, α(H _{cj})	%/°C		-0.535	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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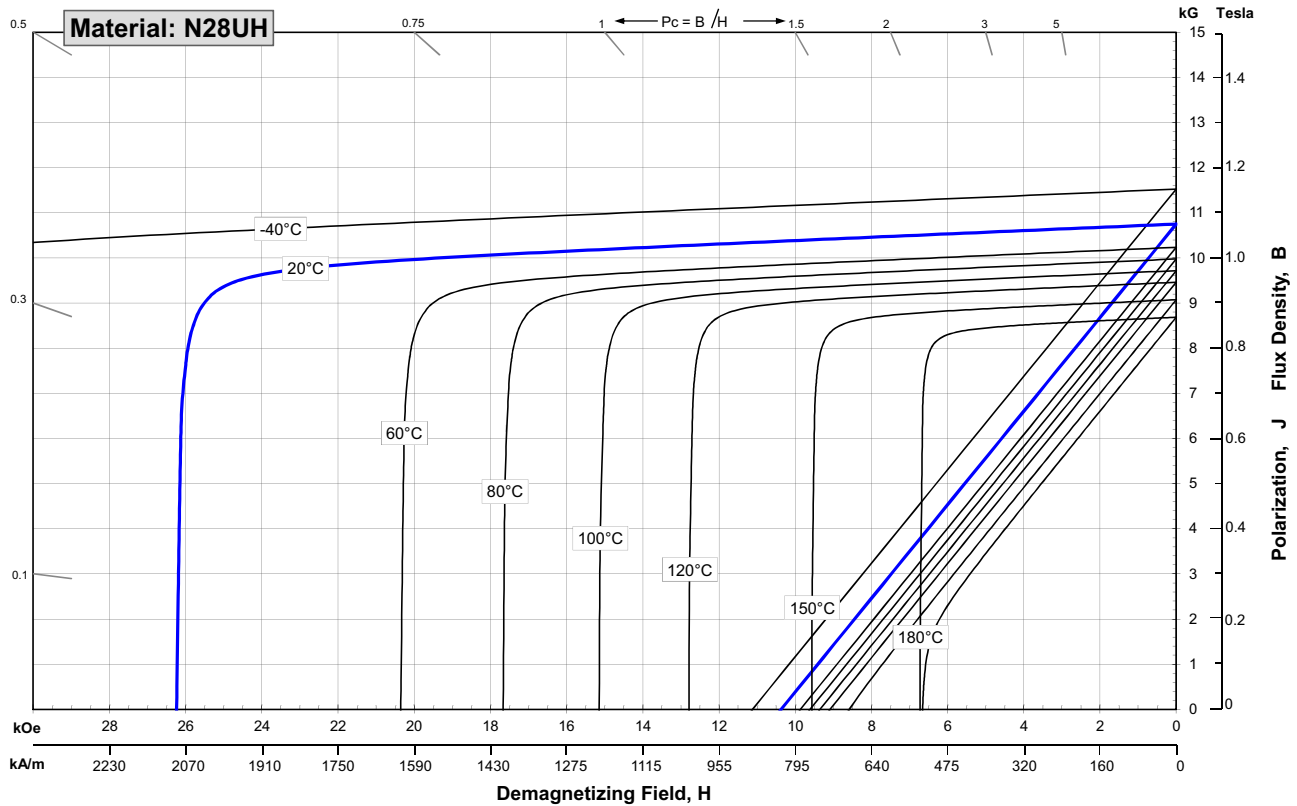
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	10,200
	mT	1020	1075	1130
H_{cB} , Coercivity	Oersteds	9,600	10,200	10,800
	kA/m	764	812	859
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	26	29	31
	kJ/m ³	207	227	247

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.465
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r	mW • cm		

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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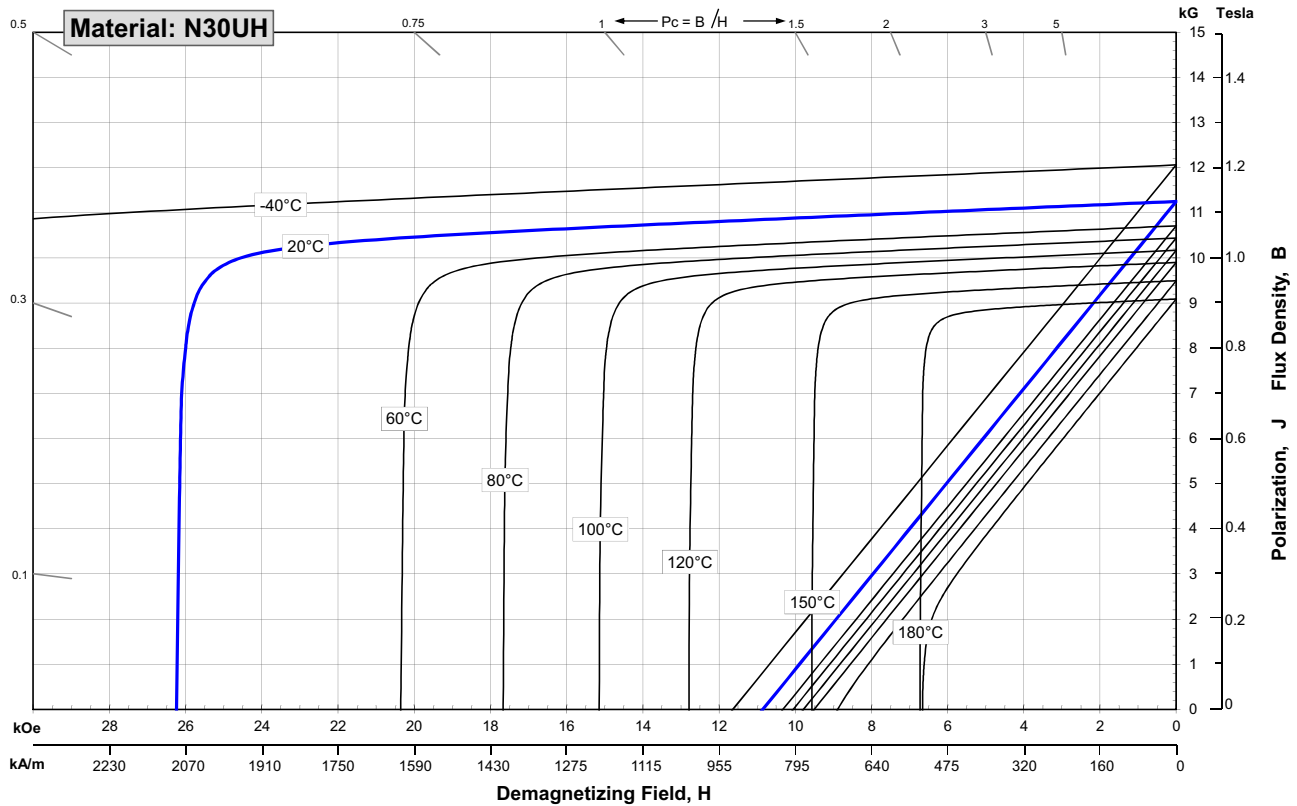
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	10,800
	mT	1080	1125	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	28	31	33
	kJ/m ³	223	243	263

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.465
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C×10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW • cm

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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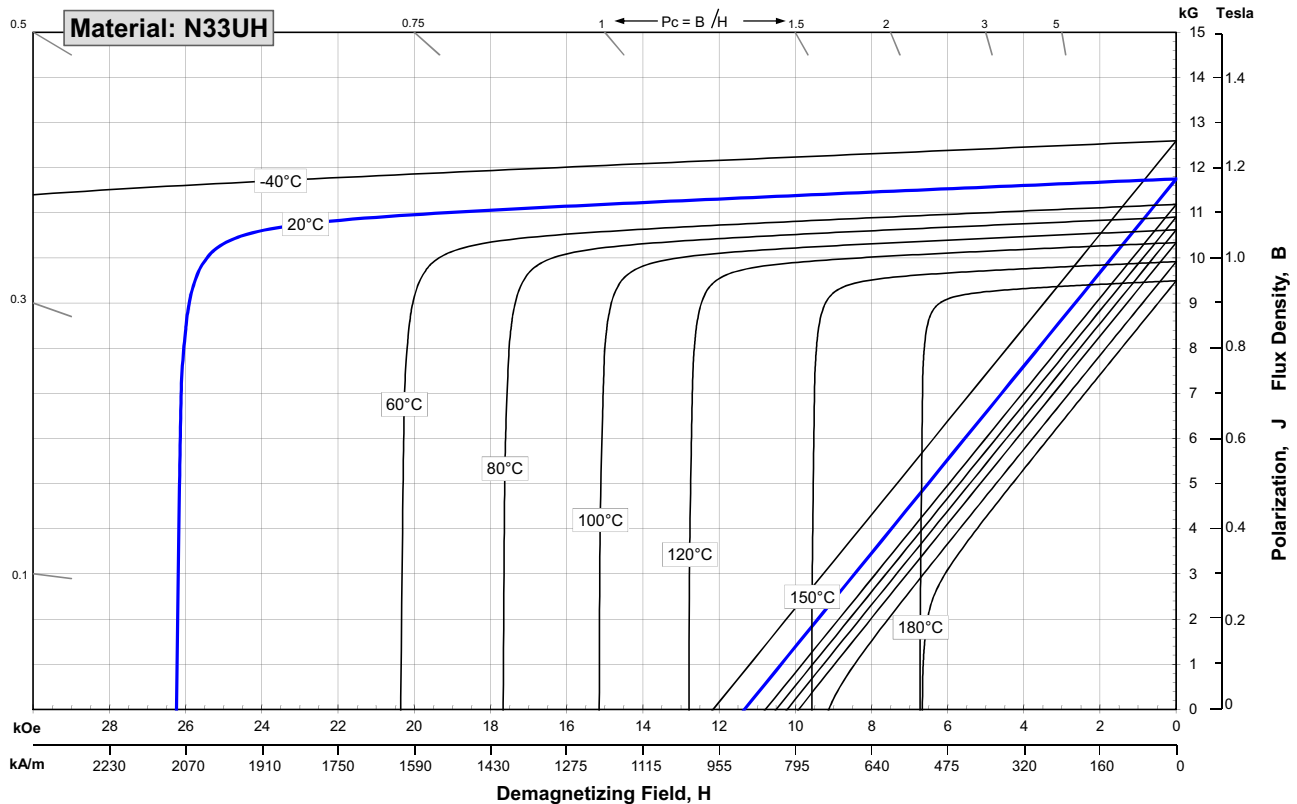
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,300
	mT	1130	1175	1220
H_{cB} , Coercivity	Oersteds	10,700	11,200	11,700
	kA/m	852	891	931
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.465
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties				
Flexural Strength	psi			41,300
	MPa			285
Density	g/cm ³			7.5
Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			180

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
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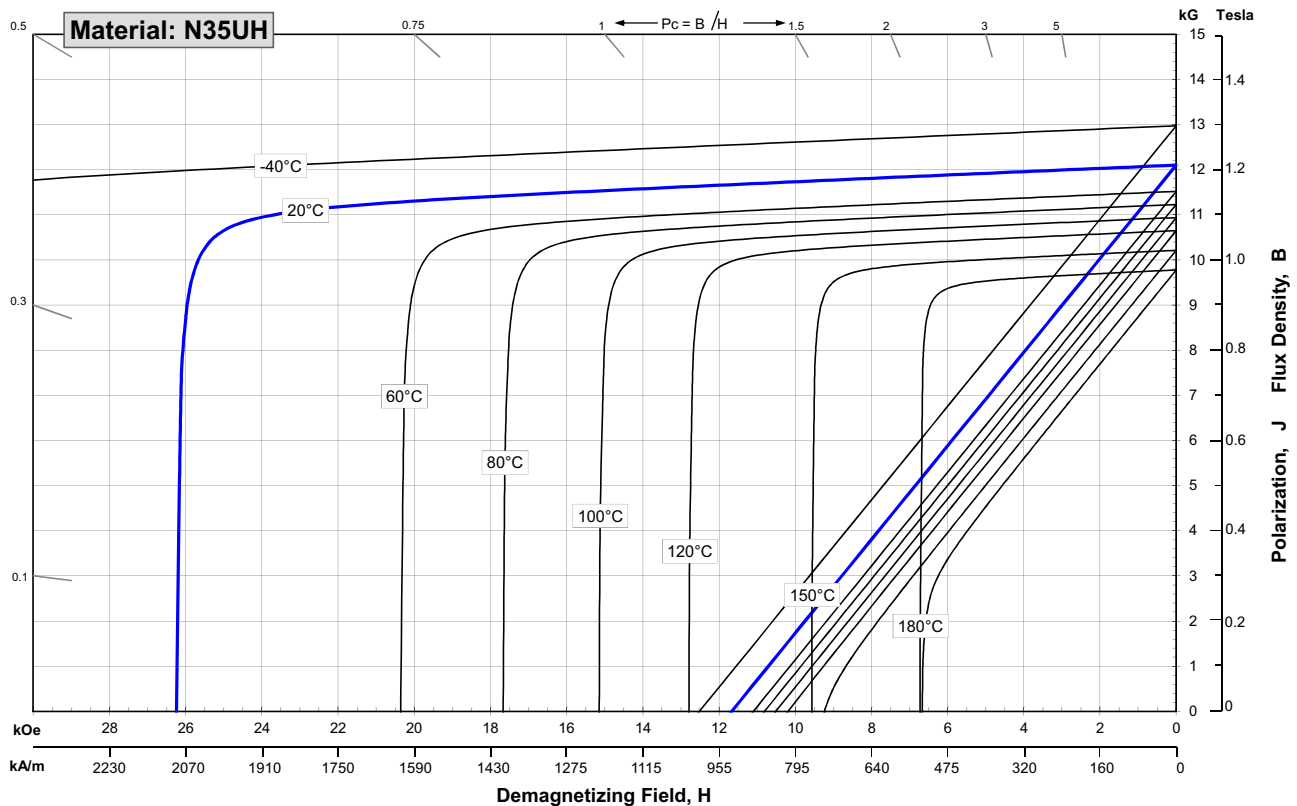
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1210	1250
H_{cB} , Coercivity	Oersteds	10,800	11,400	12,000
	kA/m	860	907	955
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BHmax , Maximum Energy Product	MGOe	33	36	38
	kJ/m ³	263	283	302

Characteristic	Units	C // C ^	
		Reversible Temperature Coefficients ⁽¹⁾	
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.465	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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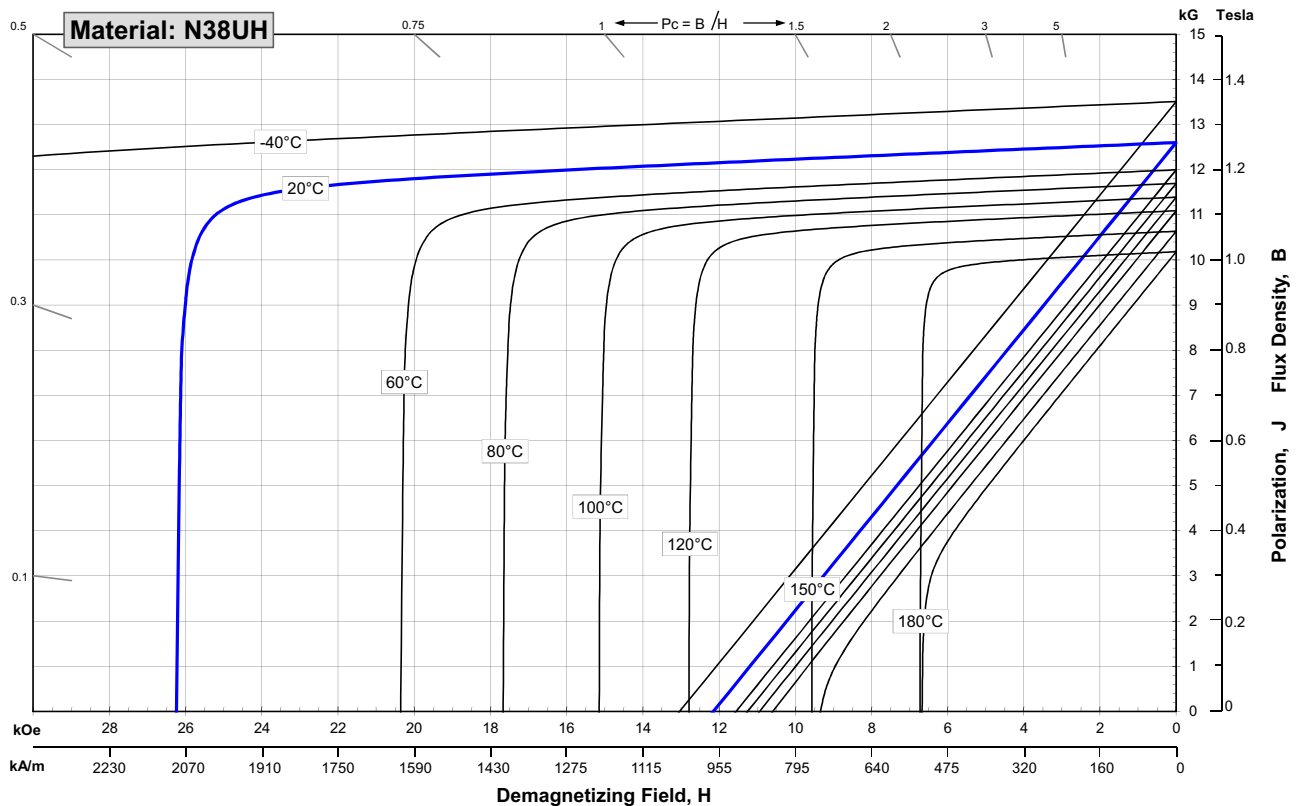
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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,200
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400
	kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C // C ^		
		Reversible Temperature Coefficients ⁽¹⁾		
of Induction, α(Br)	%/°C		-0.120	
of Coercivity, α(H _{cj})	%/°C		-0.465	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

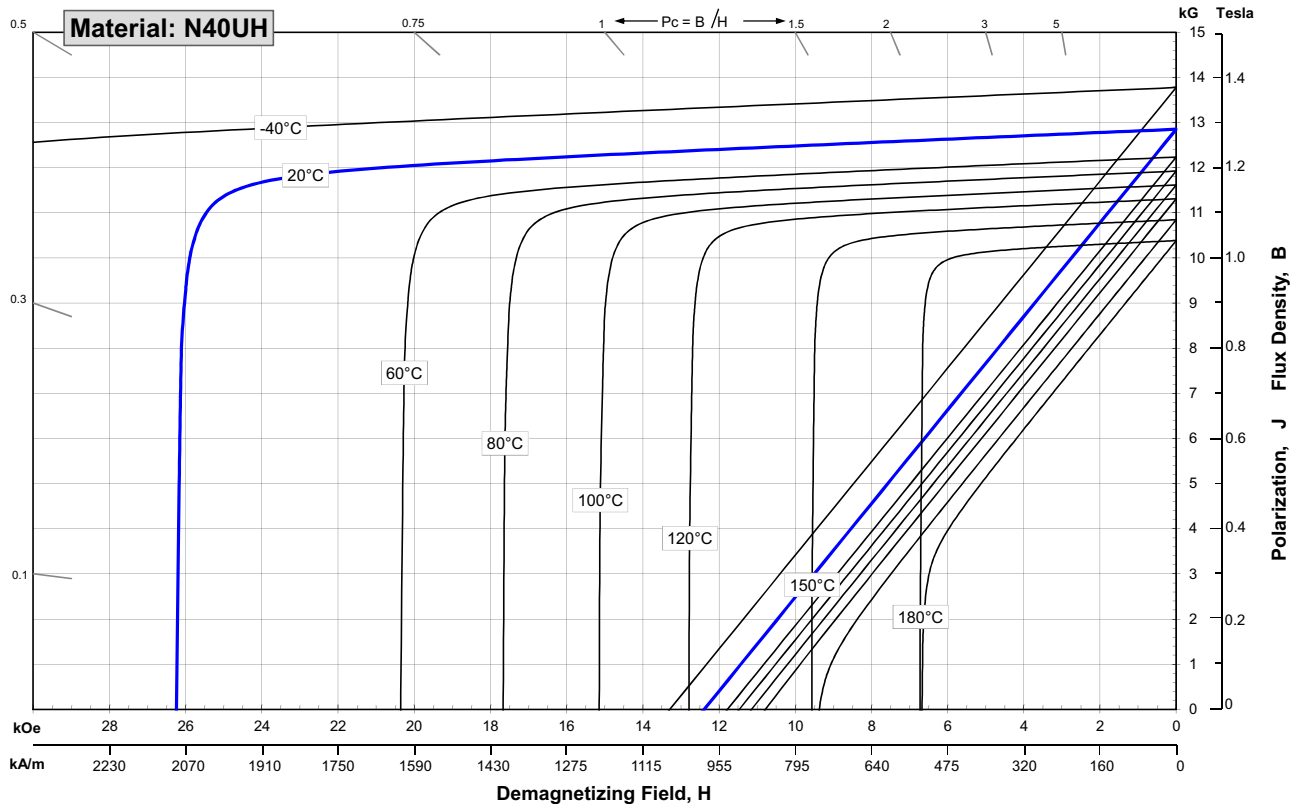
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,850	13,200
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,500	12,050	12,600
	kA/m	915	959	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.465	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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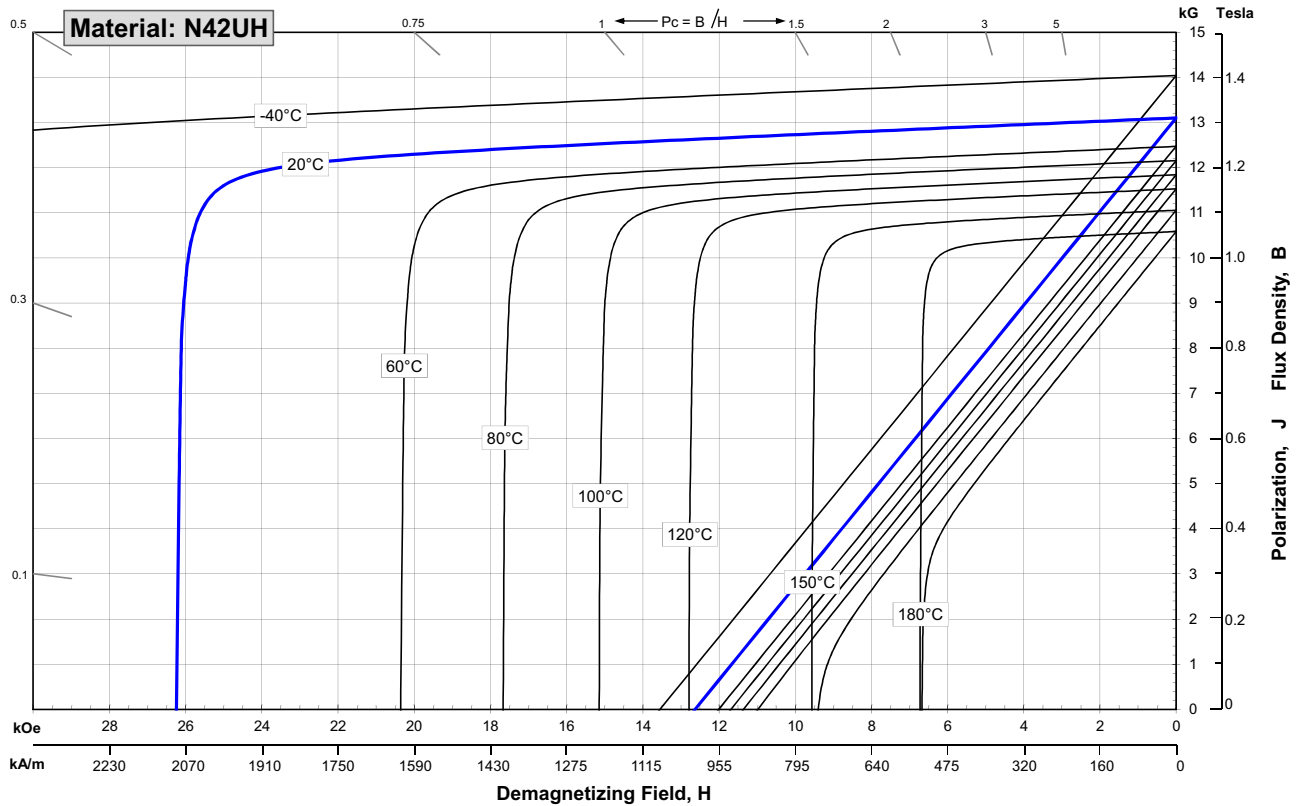
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,700	13,100	13,500
	mT	1270	1310	1350
H_{cB} , Coercivity	Oersteds	12,000	12,450	12,900
	kA/m	955	991	1027
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	39	42	44
	kJ/m ³	310	330	350

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.465	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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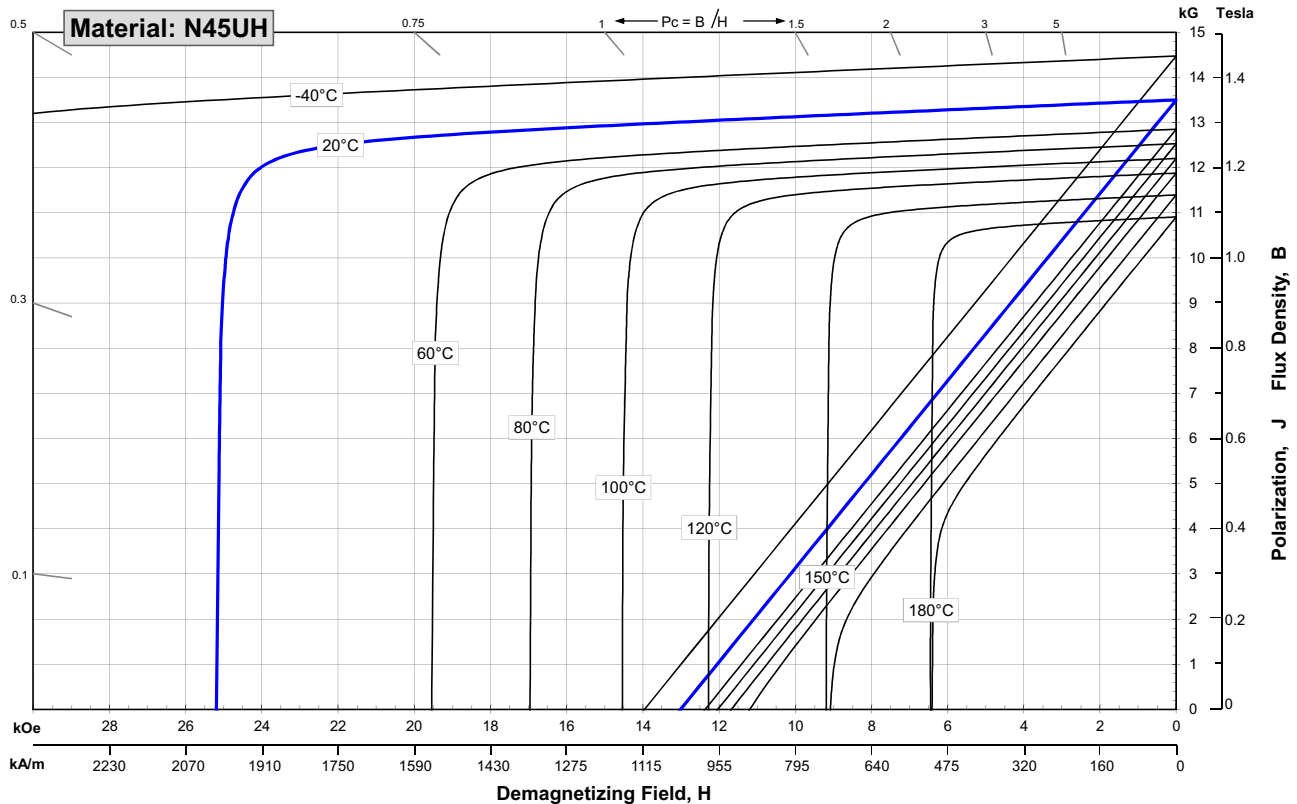
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,200	13,500
		mT	1320	1350	1380
H_{cB} , Coercivity		Oersteds	12,500	12,850	13,200
		kA/m	995	1023	1050
H_{cJ} , Intrinsic Coercivity		Oersteds	24,000		
		kA/m	1,910		
BH_{max} , Maximum Energy Product		MGOe	43	45	47
		kJ/m ³	342	358	374

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.120	
of Coercivity, α(H _{cj})		%/°C		-0.465	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °C×10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		W / (m • K)		7.6	
Other Properties	Specific Heat ⁽³⁾	J / (kg • K)		460	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.5
Hardness, Vickers	Hv			620	
Electrical Resistivity, r	mW • cm			180	

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

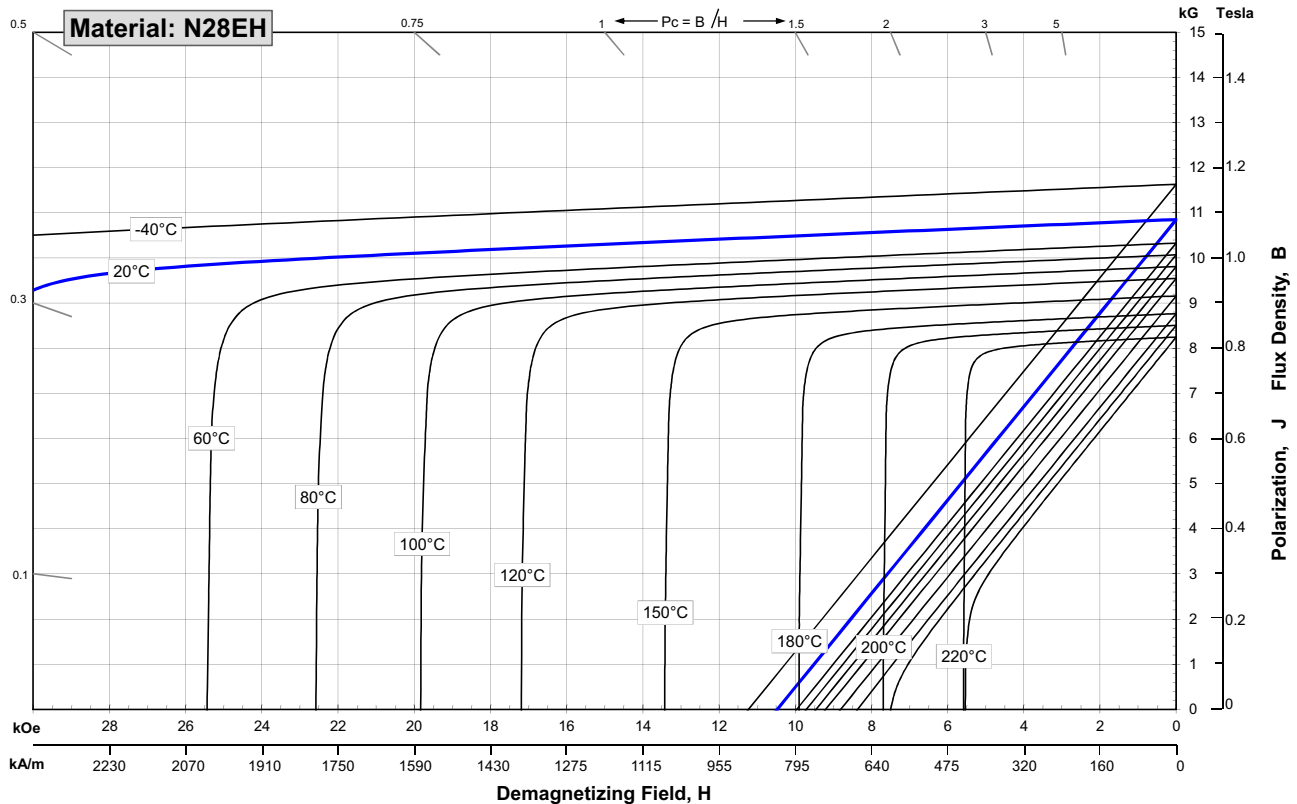
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	10,400	10,850	11,300
	mT	1040	1085	1130
H_{cB} , Coercivity	Oersteds	9,800	10,300	10,800
	kA/m	780	820	859
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	26	29	31
	kJ/m ³	207	227	247

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.420	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

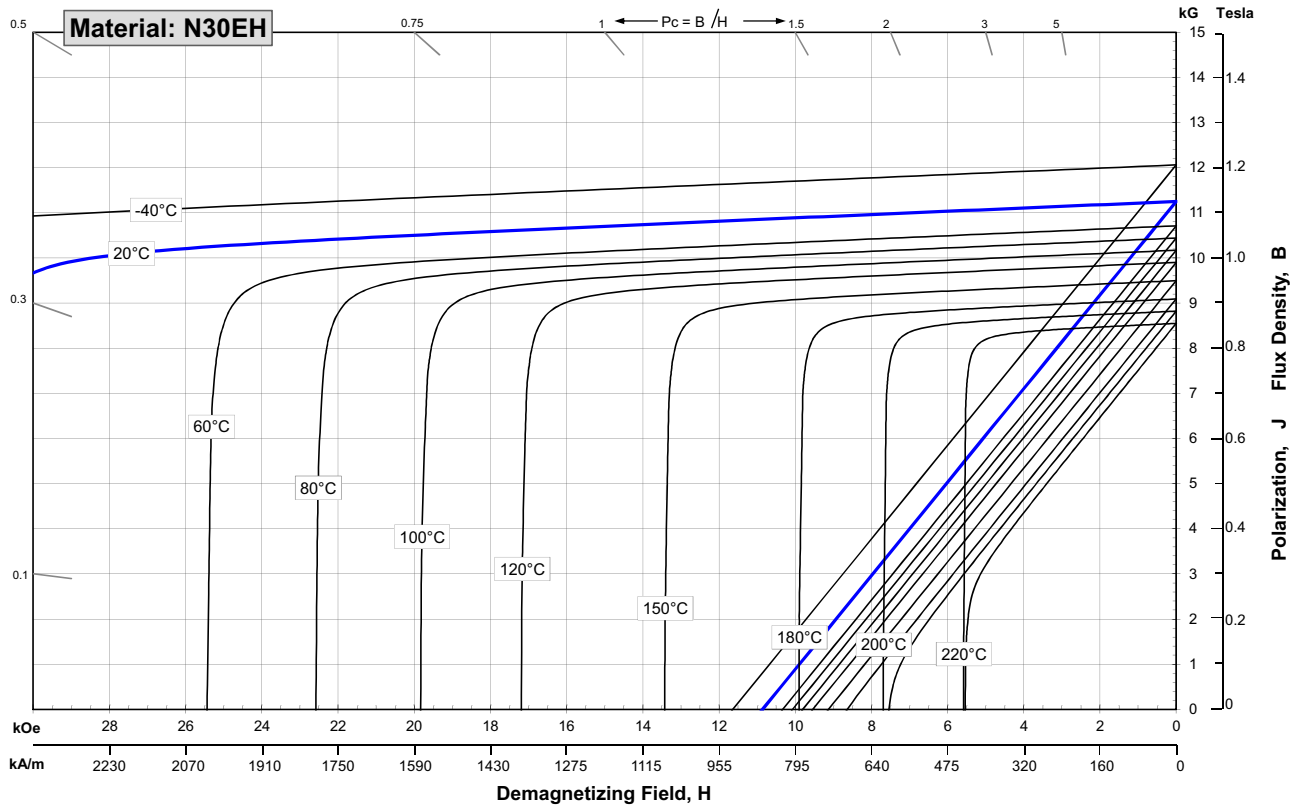
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	10,800	11,250
		mT	1080	1125	1170
H_{cB} , Coercivity		Oersteds	10,200	10,700	11,200
		kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity		Oersteds	30,000		
		kA/m	2,388		
BH_{max} , Maximum Energy Product		MGOe	28	31	33
		kJ/m ³	223	243	263

Thermal Properties	Characteristic	Units	C //	C ^
	Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C		-0.120
	of Coercivity, α(H _{cj})	%/°C		-0.420
	Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
	Thermal Conductivity	W / (m · K)		7.6
	Specific Heat ⁽³⁾	J / (kg · K)		460
	Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi		41,300
		MPa		285
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW · cm		180

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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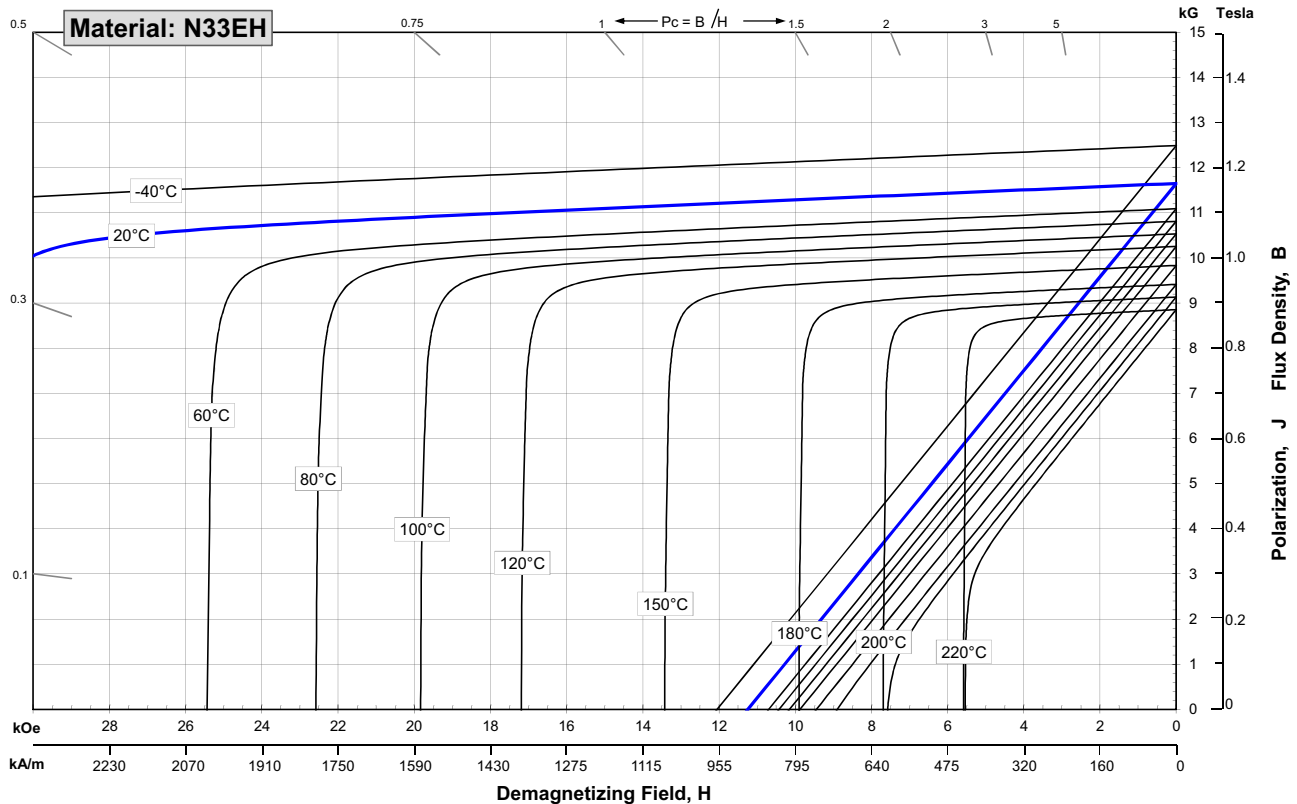
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,300	11,650	12,000
	mT	1130	1165	1200
H_{CB} , Coercivity	Oersteds	10,300	10,900	11,500
	kA/m	820	867	915
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.420	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m · K)	7.6	
Specific Heat ⁽³⁾	J / (kg · K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW · cm	180	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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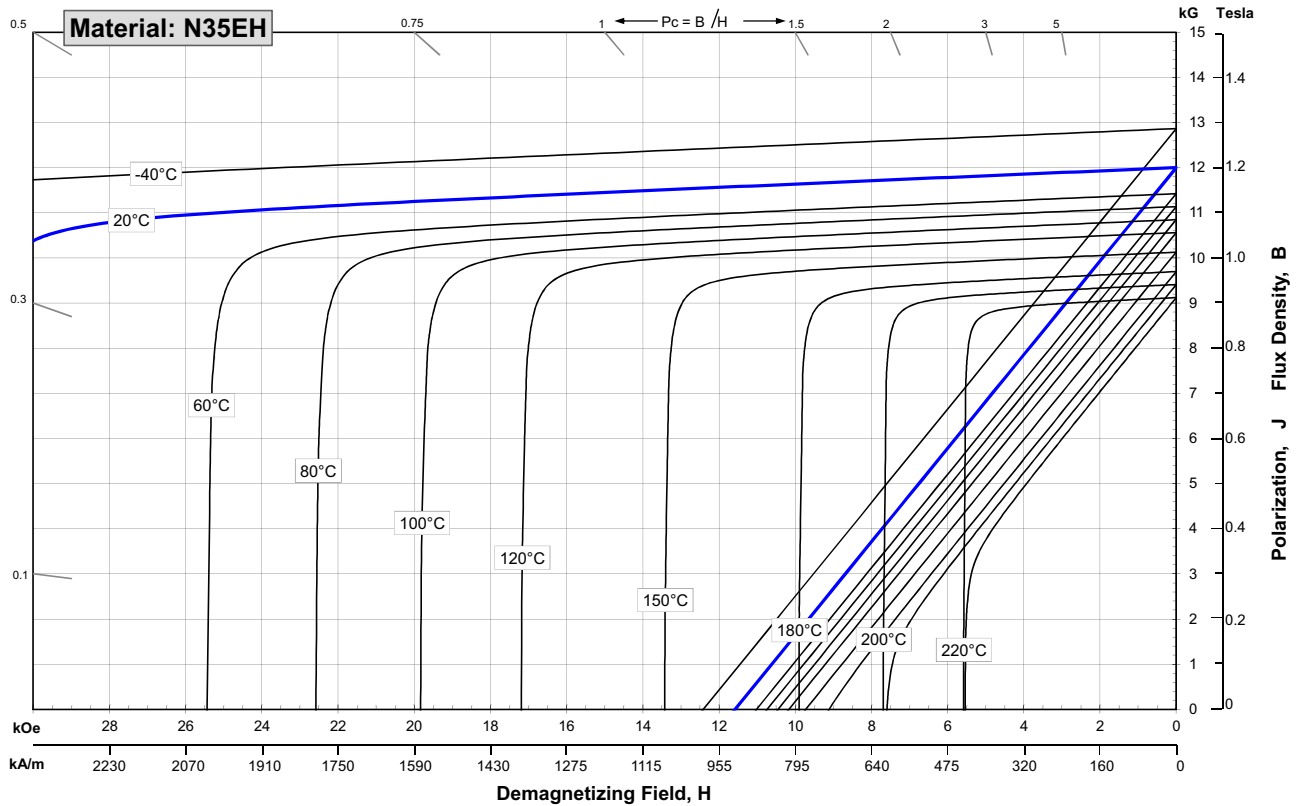
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1200	1230
H_{cB} , Coercivity	Oersteds	10,500	11,150	11,800
	kA/m	836	887	939
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BHmax , Maximum Energy Product	MGOe	33	35	37
	kJ/m ³	263	279	295

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.420
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties				
Flexural Strength	psi			41,300
	MPa			285
Density	g/cm ³			7.5
Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			180

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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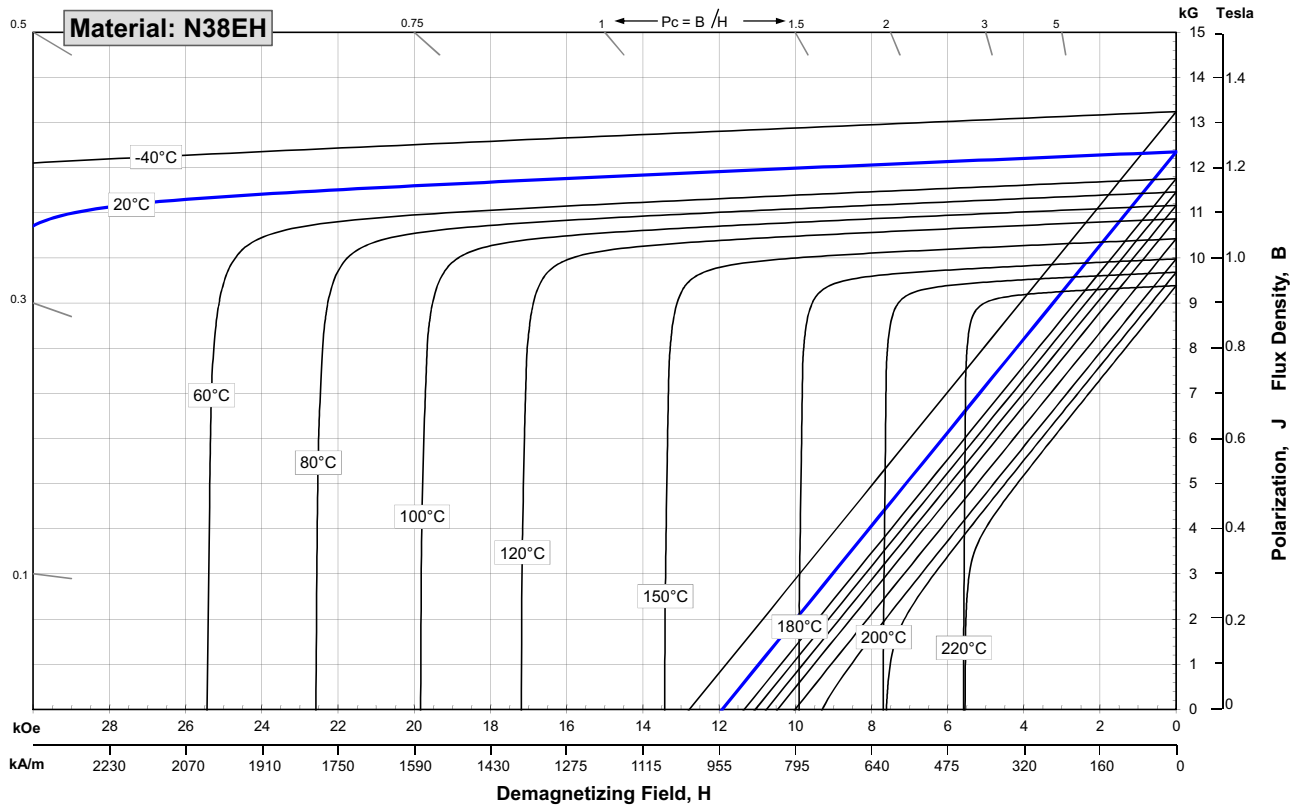
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,000
	mT	1200	1235	1280
H_{cB} , Coercivity	Oersteds	11,300	11,750	12,200
	kA/m	899	935	971
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BHmax , Maximum Energy Product	MGOe	36	38	40
	kJ/m ³	287	303	318

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.420	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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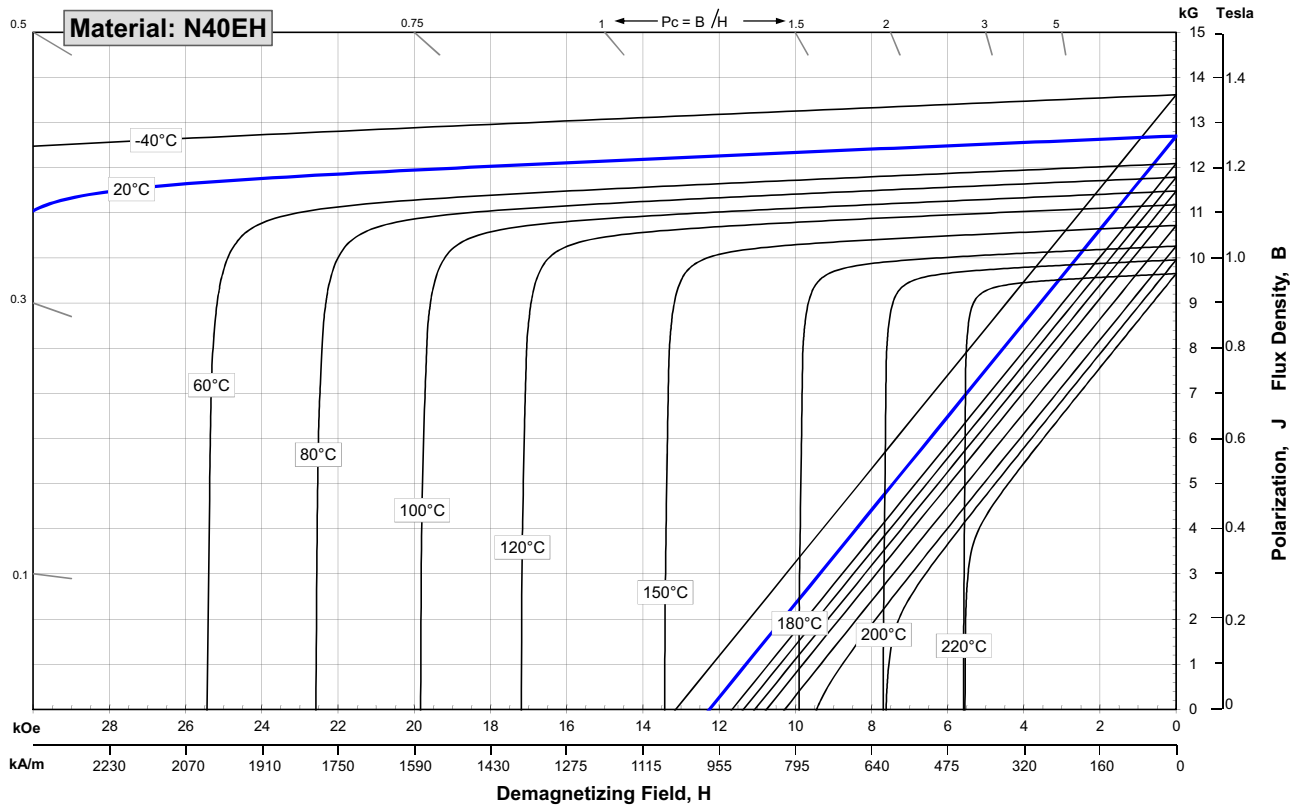
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,500
	mT	1250	1270	1290
H_{cB} , Coercivity	Oersteds	11,500	11,900	12,300
	kA/m	915	947	979
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	38	40	41
	kJ/m ³	302	314	326

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.420	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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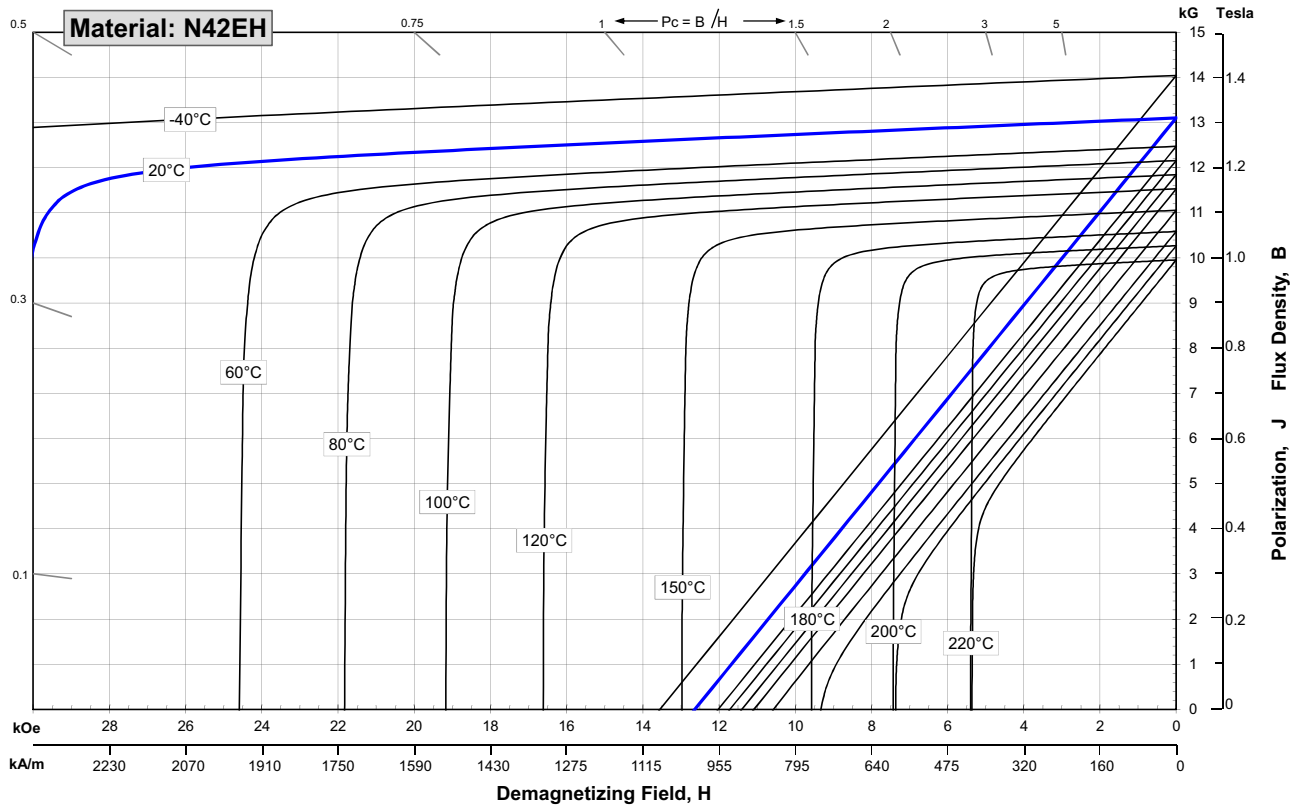
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,800	13,100	13,400
	mT	1280	1310	1340
H_{cB} , Coercivity	Oersteds	12,200	12,500	12,800
	kA/m	971	995	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	29,000		
	kA/m	2,308		
BH_{max} , Maximum Energy Product	MGOe	39	41	43
	kJ/m ³	310	326	342

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.420
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.5
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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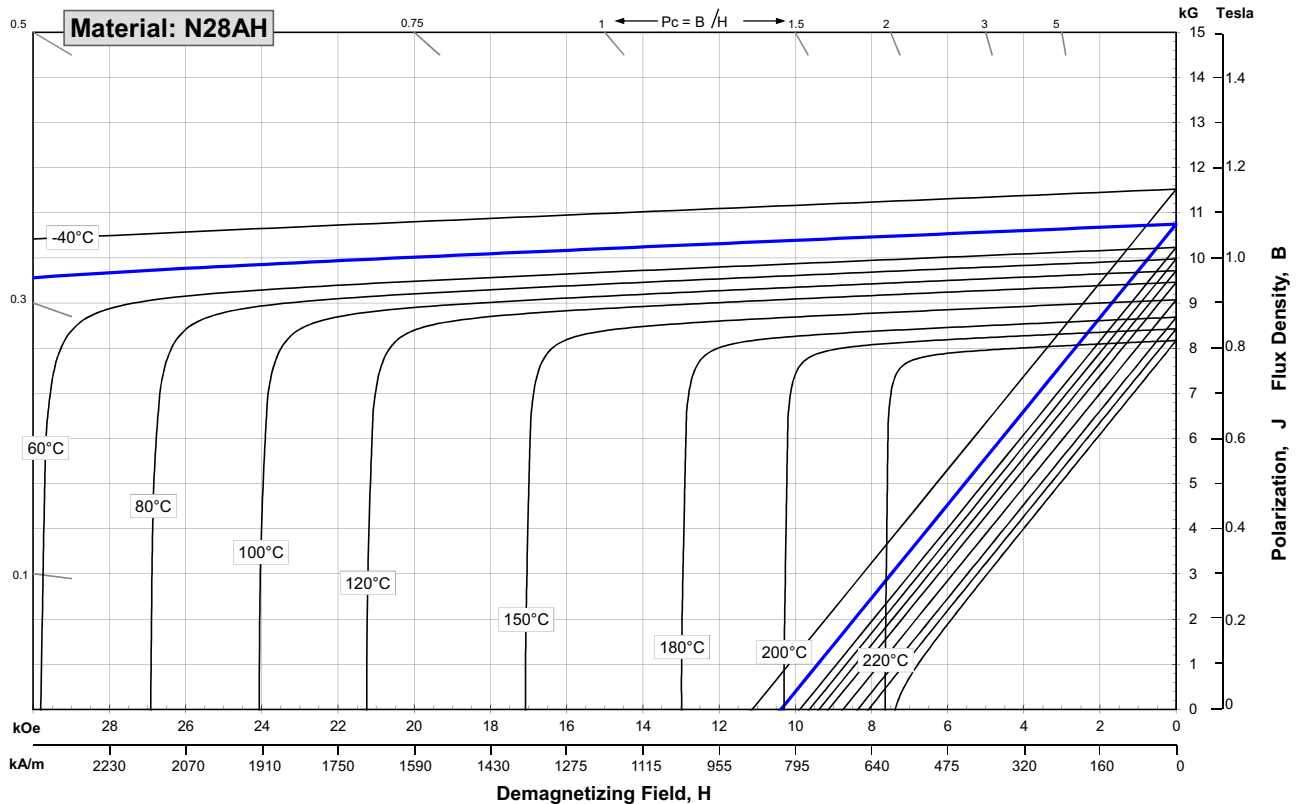
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	10,200
	mT	1020	1075	1130
H_{cB} , Coercivity	Oersteds	9,800	10,300	10,800
	kA/m	780	820	859
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BHmax , Maximum Energy Product	MGOe	25	28	31
	kJ/m ³	199	223	247

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.393
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW • cm

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

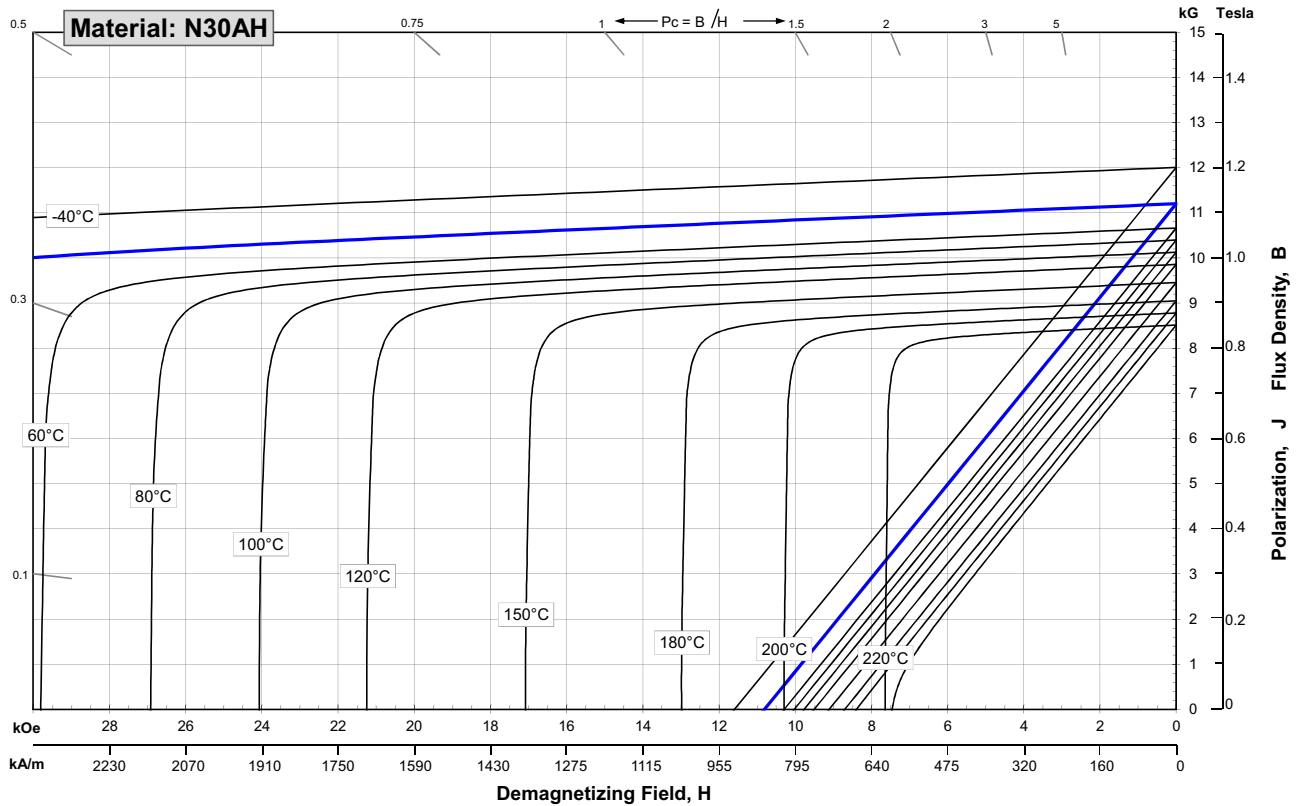
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	10,700	11,200	11,700
	mT	1070	1120	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BHmax , Maximum Energy Product	MGOe	27	30	33
	kJ/m ³	215	239	263

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.120	
of Coercivity, α(H _{cj})	%/°C	-0.393	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m · K)	7.6	
Specific Heat ⁽³⁾	J / (kg · K)	460	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW · cm	180	

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

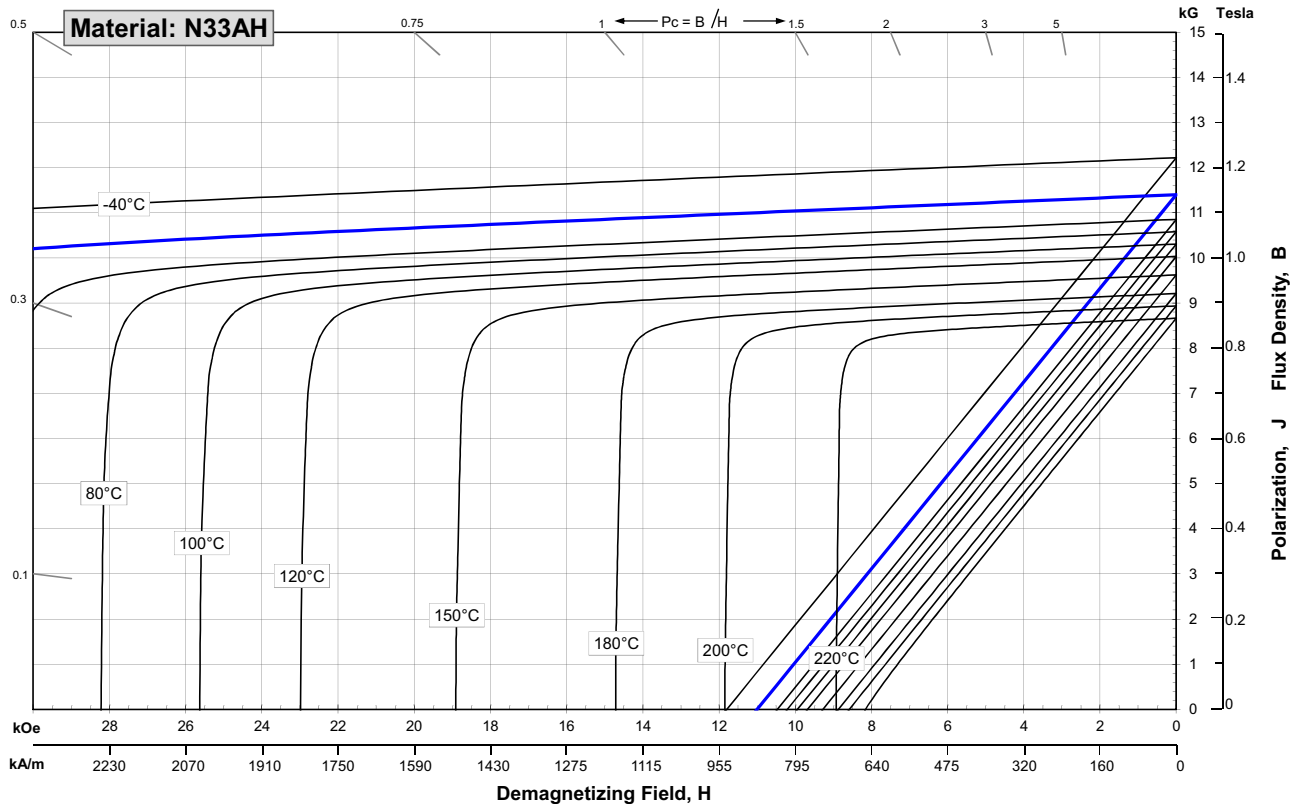
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,100
	mT	1110	1140	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	27	29	31
	kJ/m ³	215	231	247

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.375
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW • cm

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

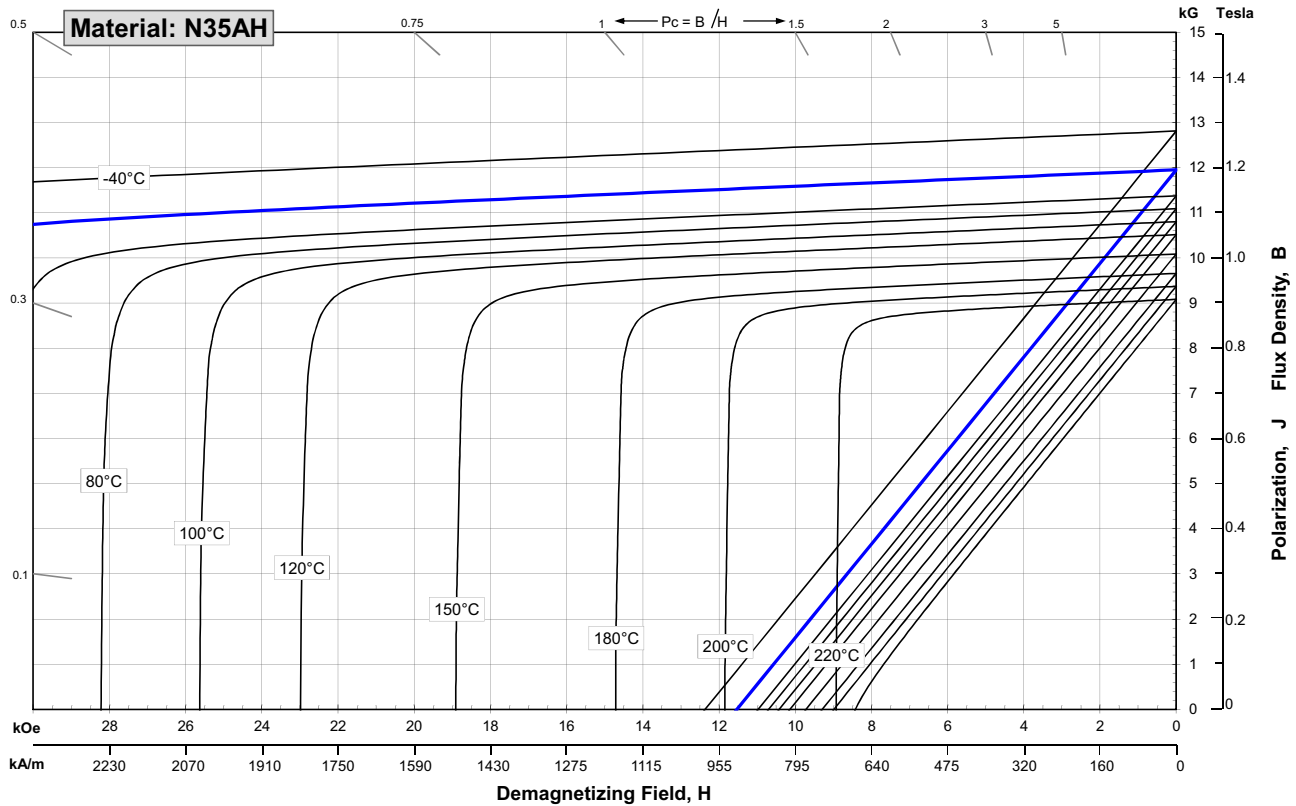
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1195	1220
H_{cB} , Coercivity	Oersteds	11,100	11,400	11,700
	kA/m	883	907	931
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	33	35	36
	kJ/m ³	263	275	287

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.120
of Coercivity, α(H _{cj})	%/°C			-0.375
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C×10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			310
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW • cm

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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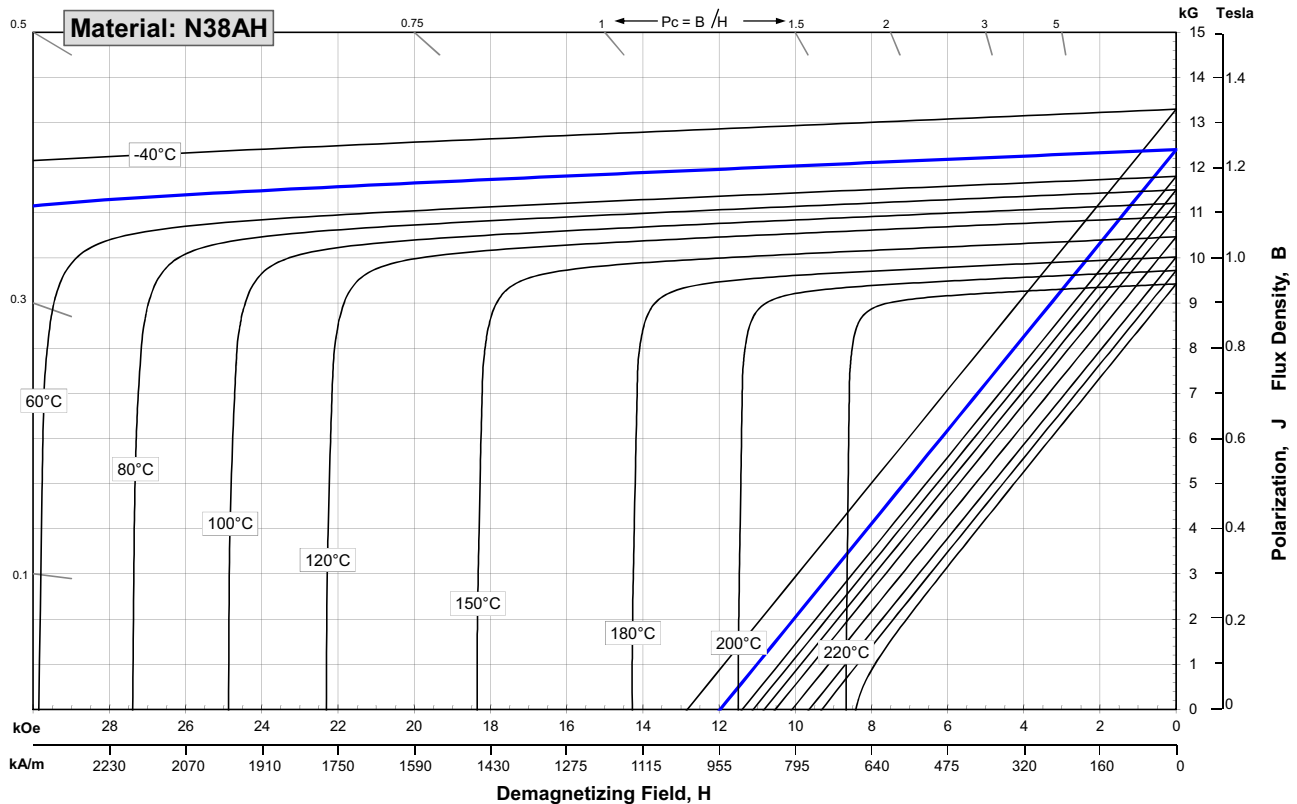
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,200
	mT	1220	1240	1260
H_{cB} , Coercivity	Oersteds	11,600	11,800	12,000
	kA/m	923	939	955
H_{cJ} , Intrinsic Coercivity	Oersteds	33,000		
	kA/m	2,626		
BHmax , Maximum Energy Product	MGOe	36	38	39
	kJ/m ³	287	299	310

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.120
of Coercivity, α(H _{cj})	%/°C		-0.375
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

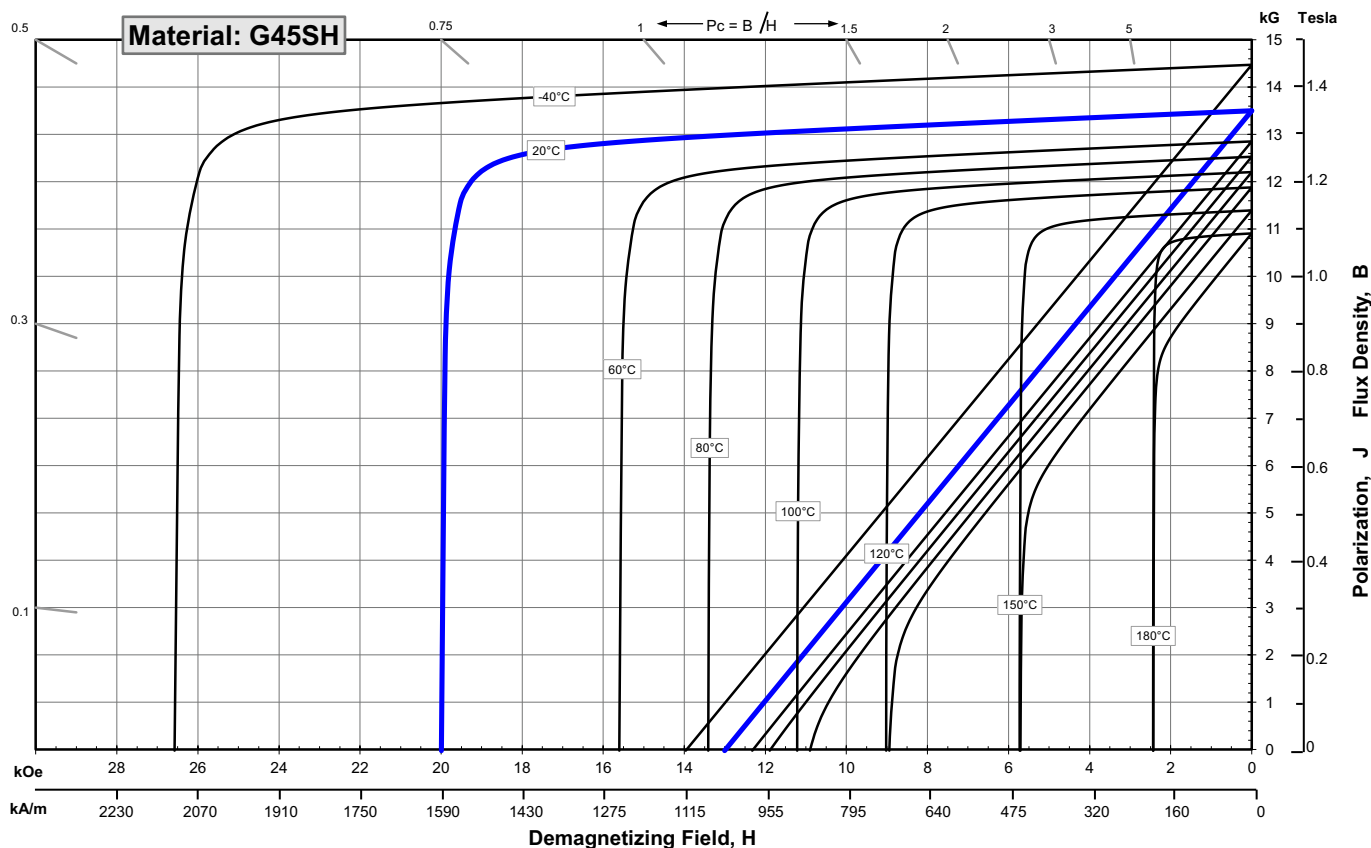
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,200	13,500
		mT	1320	1350	1380
H_{cB} , Coercivity		Oersteds	12,300	12,750	13,200
		kA/m	979	1015	1050
H_{cJ} , Intrinsic Coercivity		Oersteds	20,000		
		kA/m	1,592		
BH_{max} , Maximum Energy Product		MGOe	43	45	46
		kJ/m ³	342	354	366

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.12	
of Coercivity, α(H _{cj})		%/°C		-0.55	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		kcal/mhr°C	5.3	5.8	
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.6
	Hardness, Vickers	Hv			620
Electrical Resistivity, r	nW • cm			150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum Hci. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

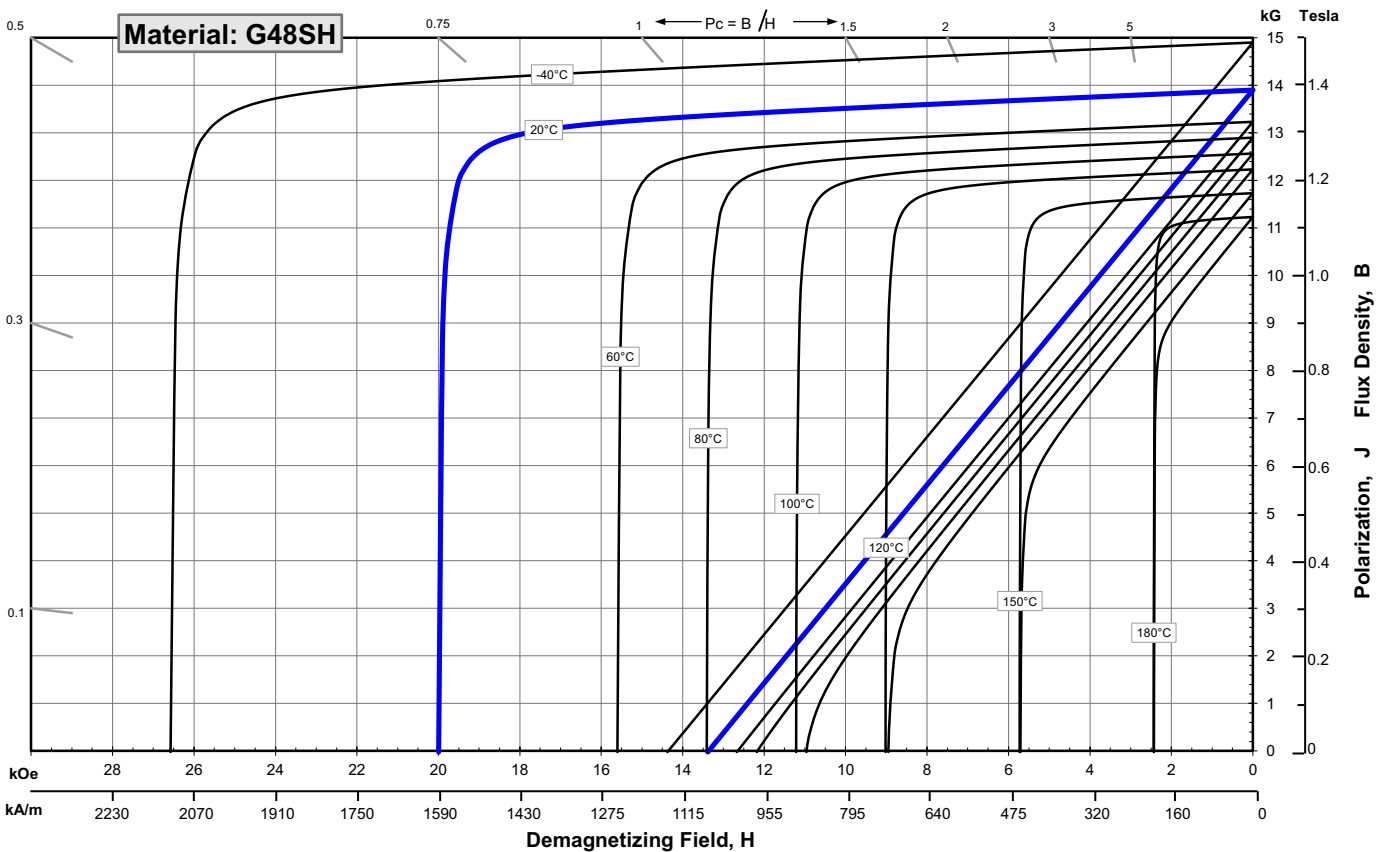
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,900	14,200
	mT	1360	1390	1420
H_{cB} , Coercivity	Oersteds	12,700	13,150	13,600
	kA/m	1011	1046	1082
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	nW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

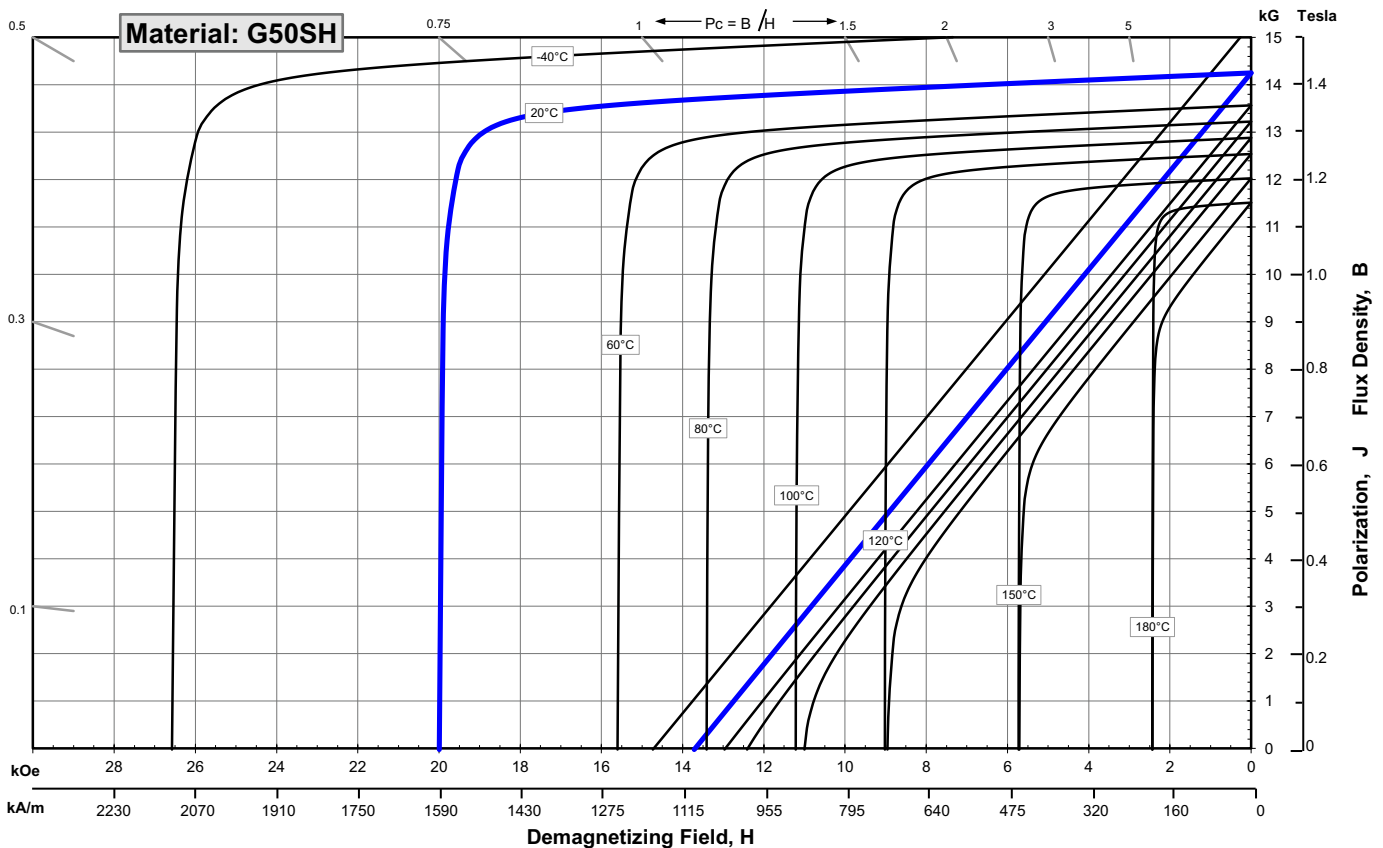
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,900	14,250	14,600
	mT	1390	1425	1460
H_{cB} , Coercivity	Oersteds	10,500	12,250	14,000
	kA/m	836	975	1114
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	47	49	51
	kJ/m ³	374	390	406

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C x 10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	nW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

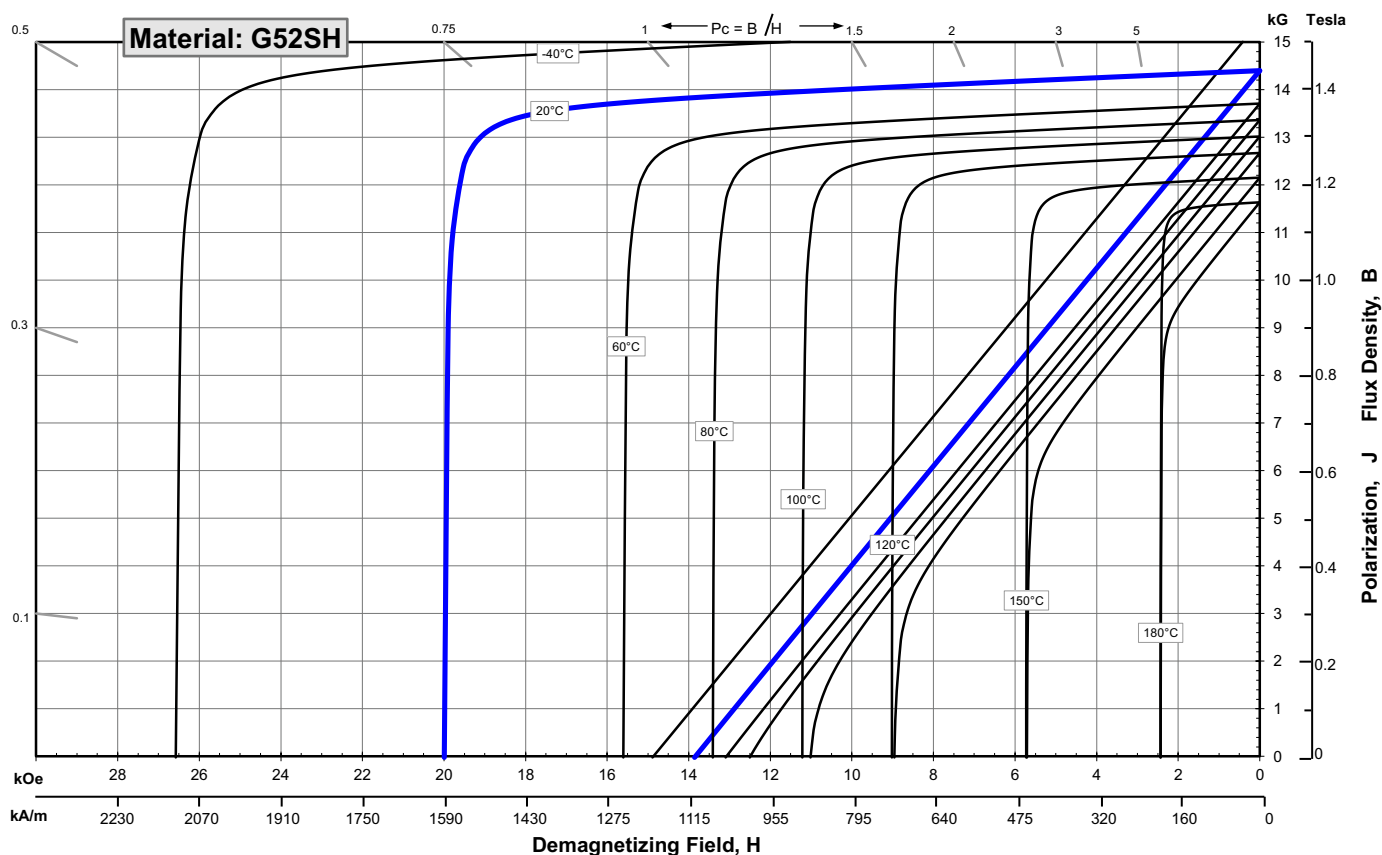
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	14,200	14,400	14,600
	mT	1420	1440	1460
H_{cB} , Coercivity	Oersteds	13,400	13,700	14,000
	kA/m	1067	1090	1114
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	48	51	53
	kJ/m ³	382	402	422

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(H _{cj})	%/°C	-0.55	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C×10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mh°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW·cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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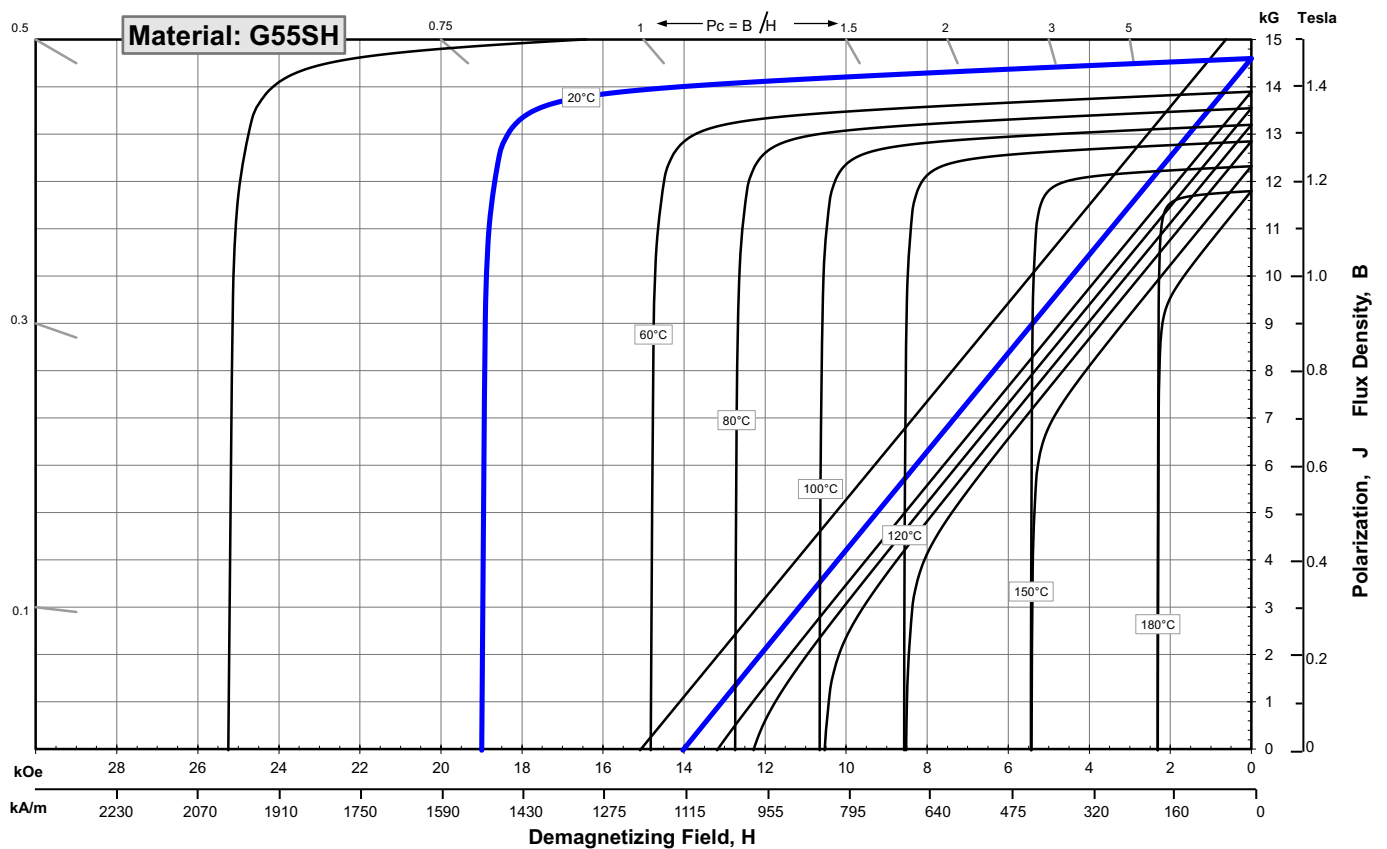
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	14,400	14,600	14,800
	mT	1440	1460	1480
H_{cB} , Coercivity	Oersteds	13,600	13,850	14,100
	kA/m	1083	1102	1122
H_{cJ} , Intrinsic Coercivity	Oersteds	19,000		
	kA/m	1,512		
BH_{max} , Maximum Energy Product	MGOe	50	53	55
	kJ/m ³	398	418	438

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(H _{cj})	%/°C	-0.55	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	nW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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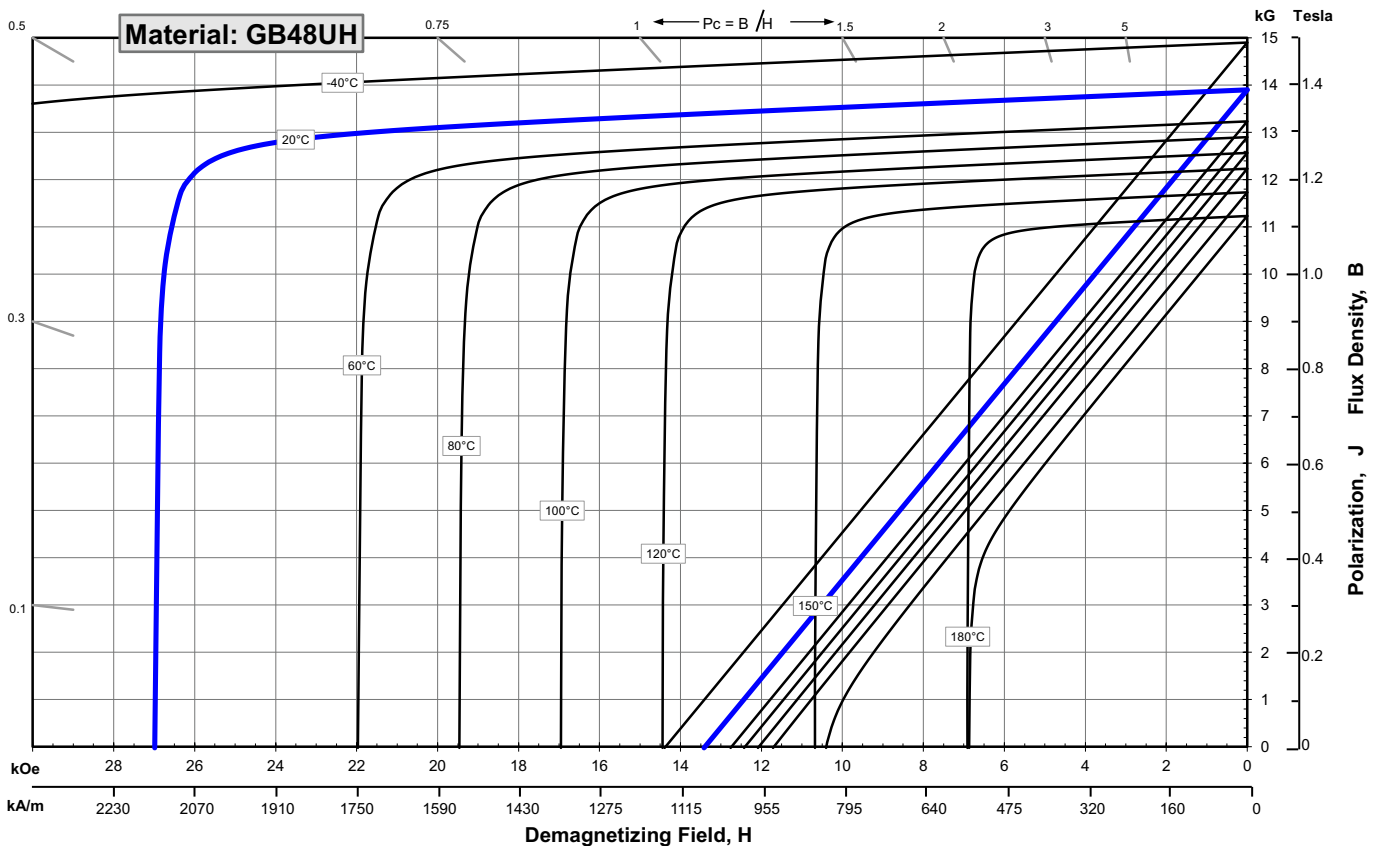
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,900	14,200
	mT	1360	1390	1420
H_{CB} , Coercivity	Oersteds	12,700	13,150	13,600
	kA/m	1011	1046	1082
H_{CJ} , Intrinsic Coercivity	Oersteds	27,000		
	kA/m	2,419		
BH_{max} , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{Cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾			
	ΔL/L per °C x 10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	nW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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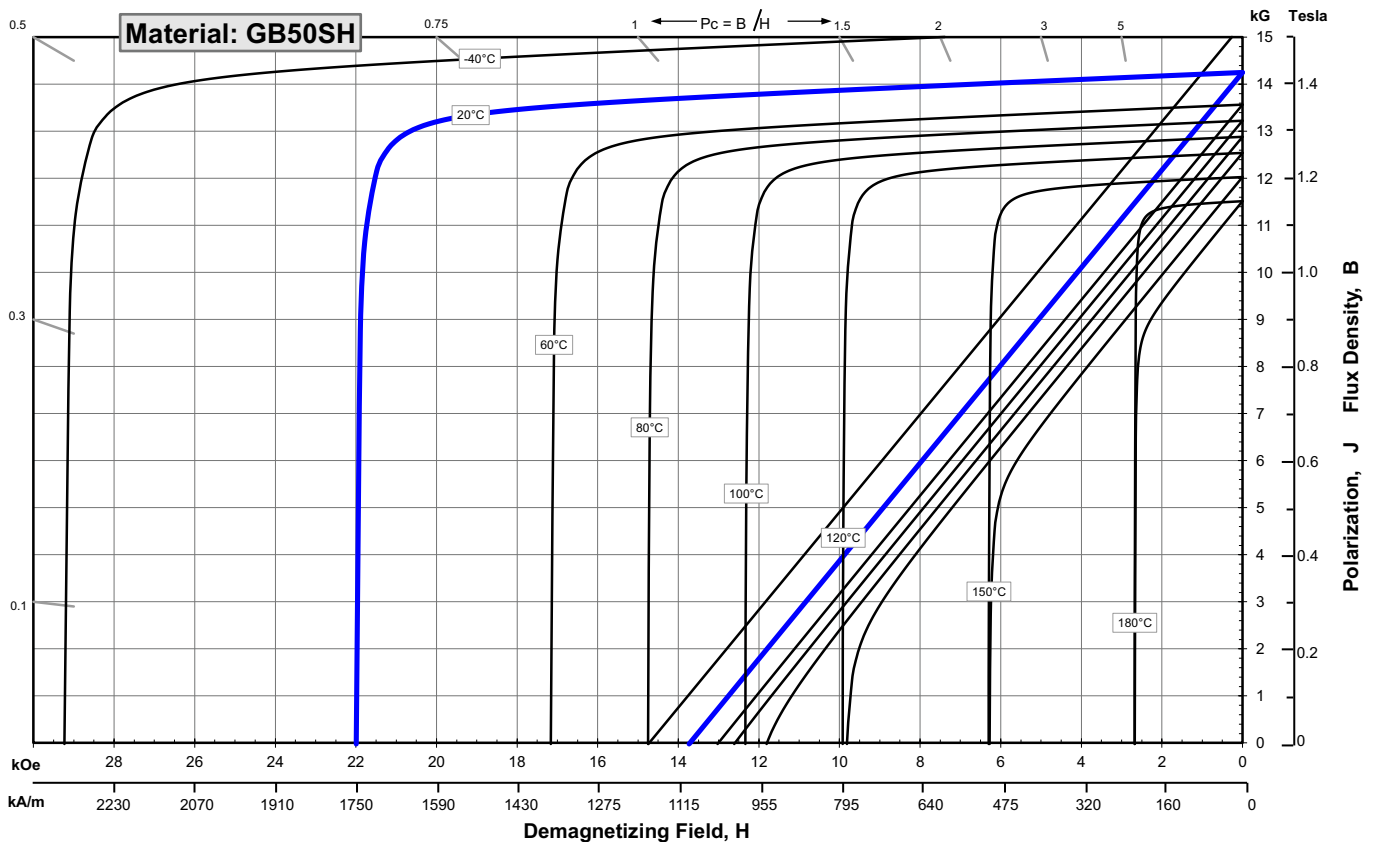
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,900	14,250	14,600
	mT	1390	1425	1460
H_{cB} , Coercivity	Oersteds	10,500	12,250	14,000
	kA/m	836	975	1114
H_{cJ} , Intrinsic Coercivity	Oersteds	22,000		
	kA/m	1,751		
BH_{max} , Maximum Energy Product	MGOe	47	49	51
	kJ/m ³	374	390	406

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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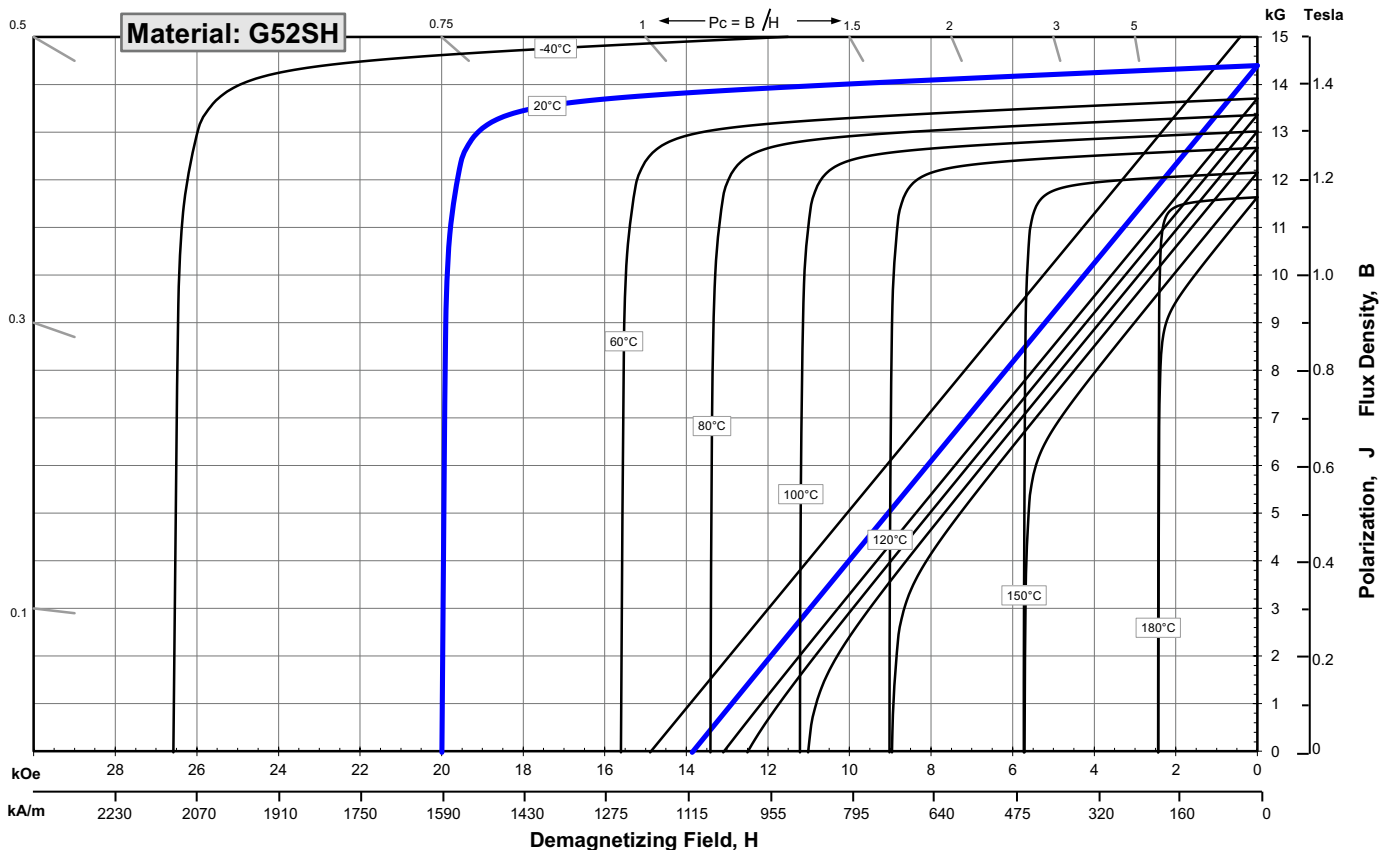
Sintered Neodymium-Iron-Boron Magnets

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Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	14,200	14,400
		mT	1420	1440	1460
H_{cB} , Coercivity		Oersteds	13,400	13,700	14,000
		kA/m	1067	1090	1114
H_{cJ} , Intrinsic Coercivity		Oersteds	20,000		
		kA/m	1,592		
BH_{max} , Maximum Energy Product		MGOe	48	51	53
		kJ/m ³	382	402	422

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.12	
of Coercivity, α(H _{cj})		%/°C		-0.55	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °C x 10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		kcal/mh°C	5.3	5.8	
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.6
	Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{ci}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

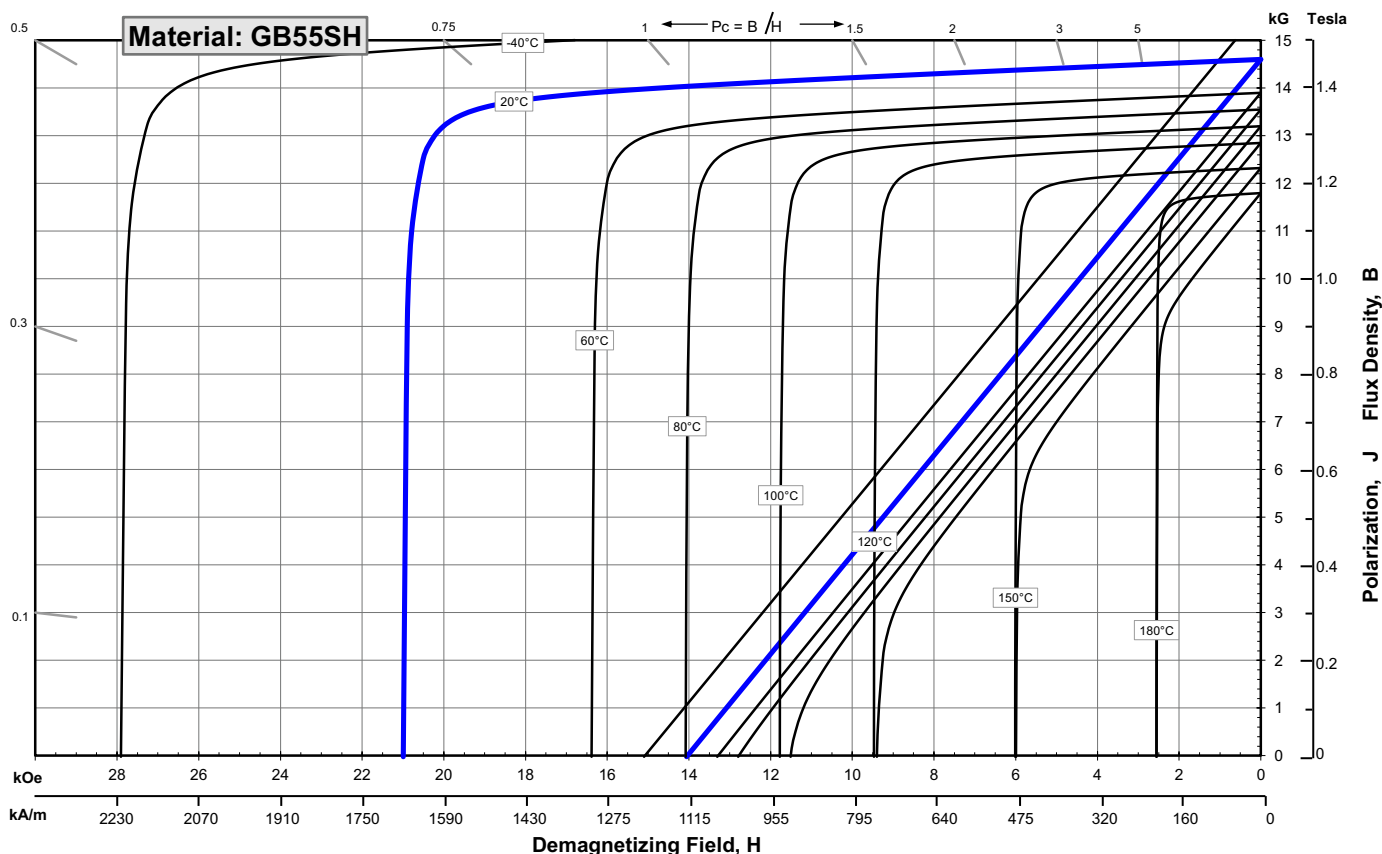
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	14,400	14,600	14,800
	mT	1440	1460	1480
H_{cb} , Coercivity	Oersteds	13,600	13,850	14,100
	kA/m	1083	1102	1122
H_{cj} , Intrinsic Coercivity	Oersteds	21,000		
	kA/m	1,672		
BH_{max} , Maximum Energy Product	MGOe	50	53	55
	kJ/m ³	398	418	438

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.55
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	nW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{ci}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

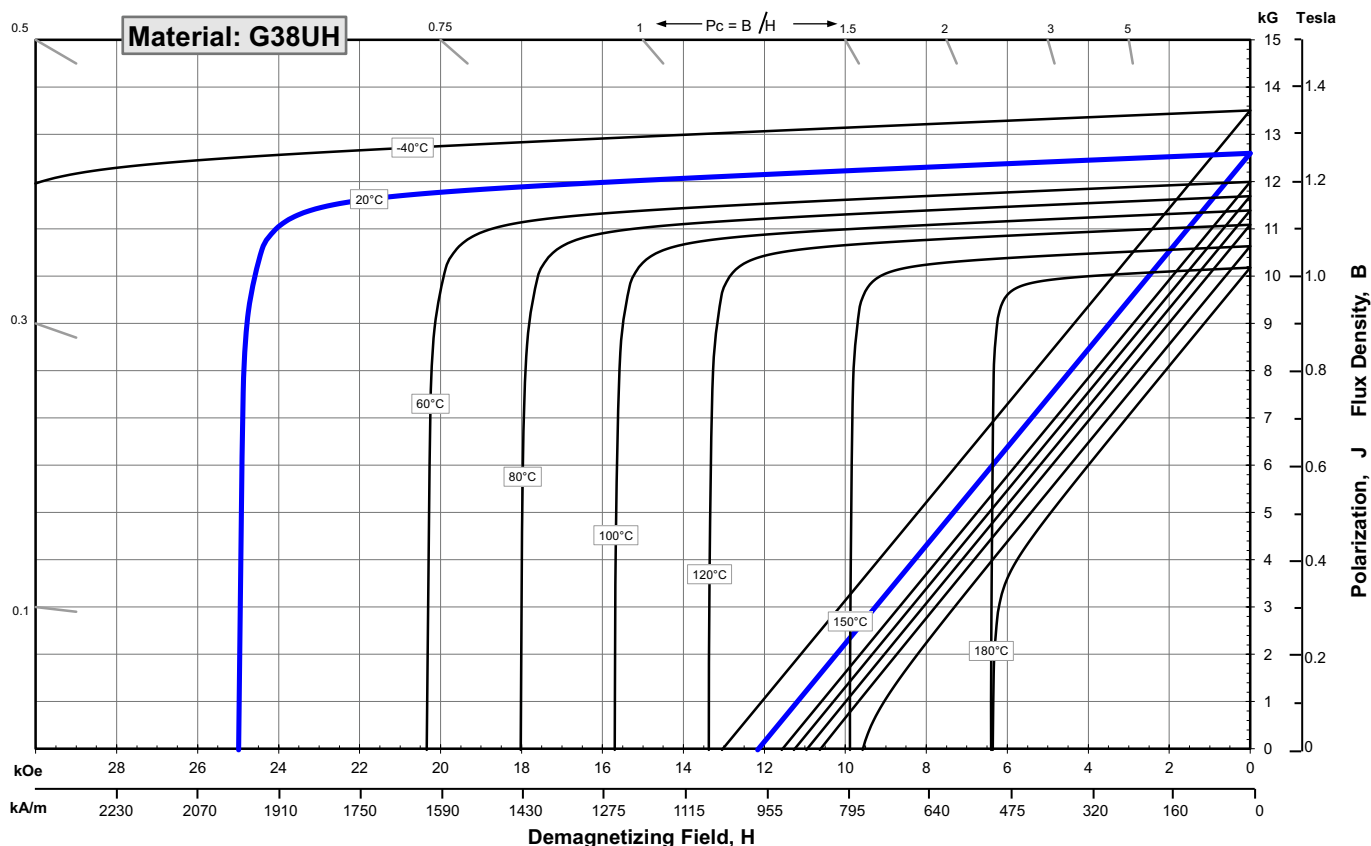
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,200	12,600	13,000
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400
	kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C×10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{ci}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

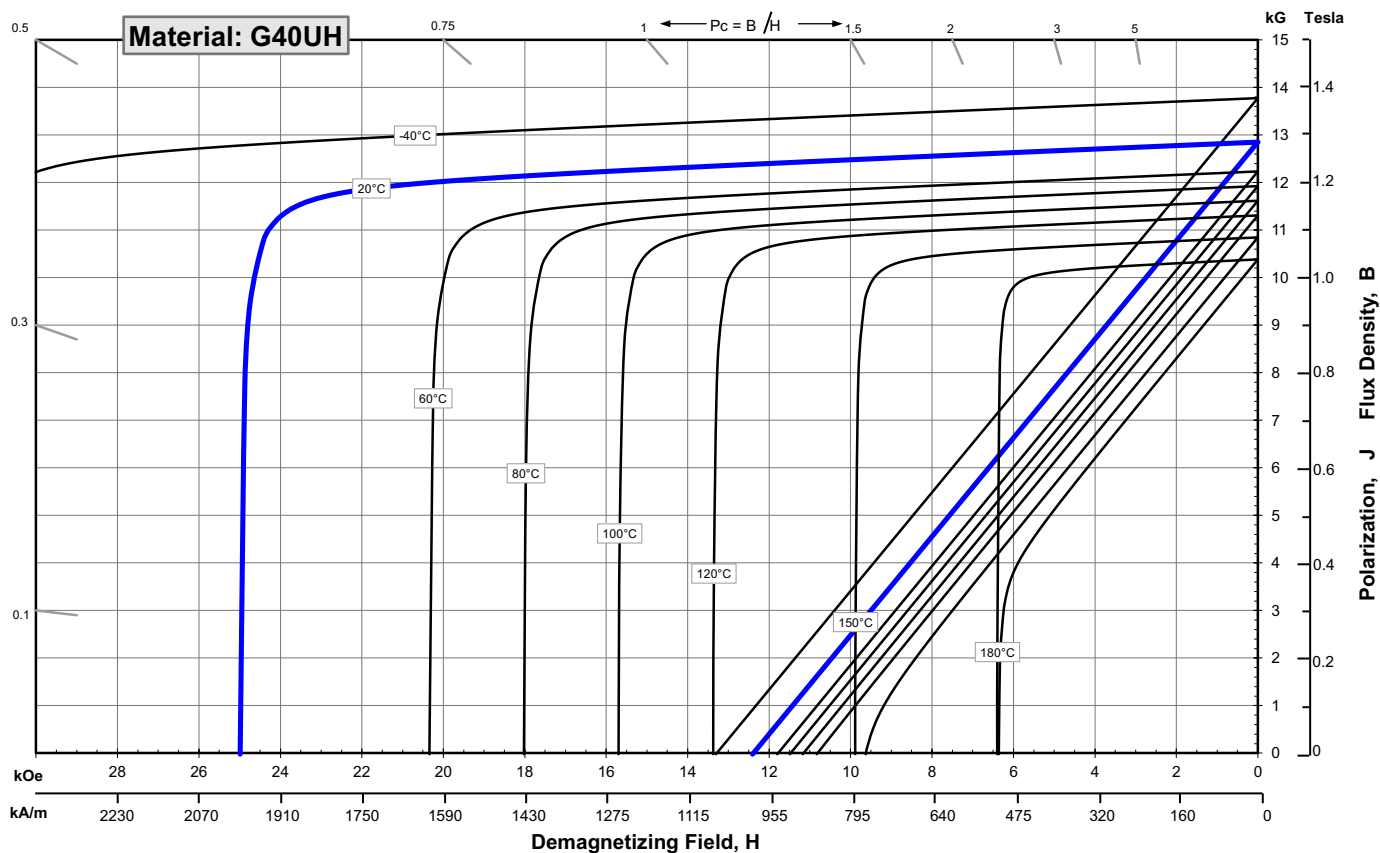
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,850	13,200
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,500	12,050	12,600
	kA/m	915	959	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾			
	ΔL/L per °C×10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW·cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum Hci. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

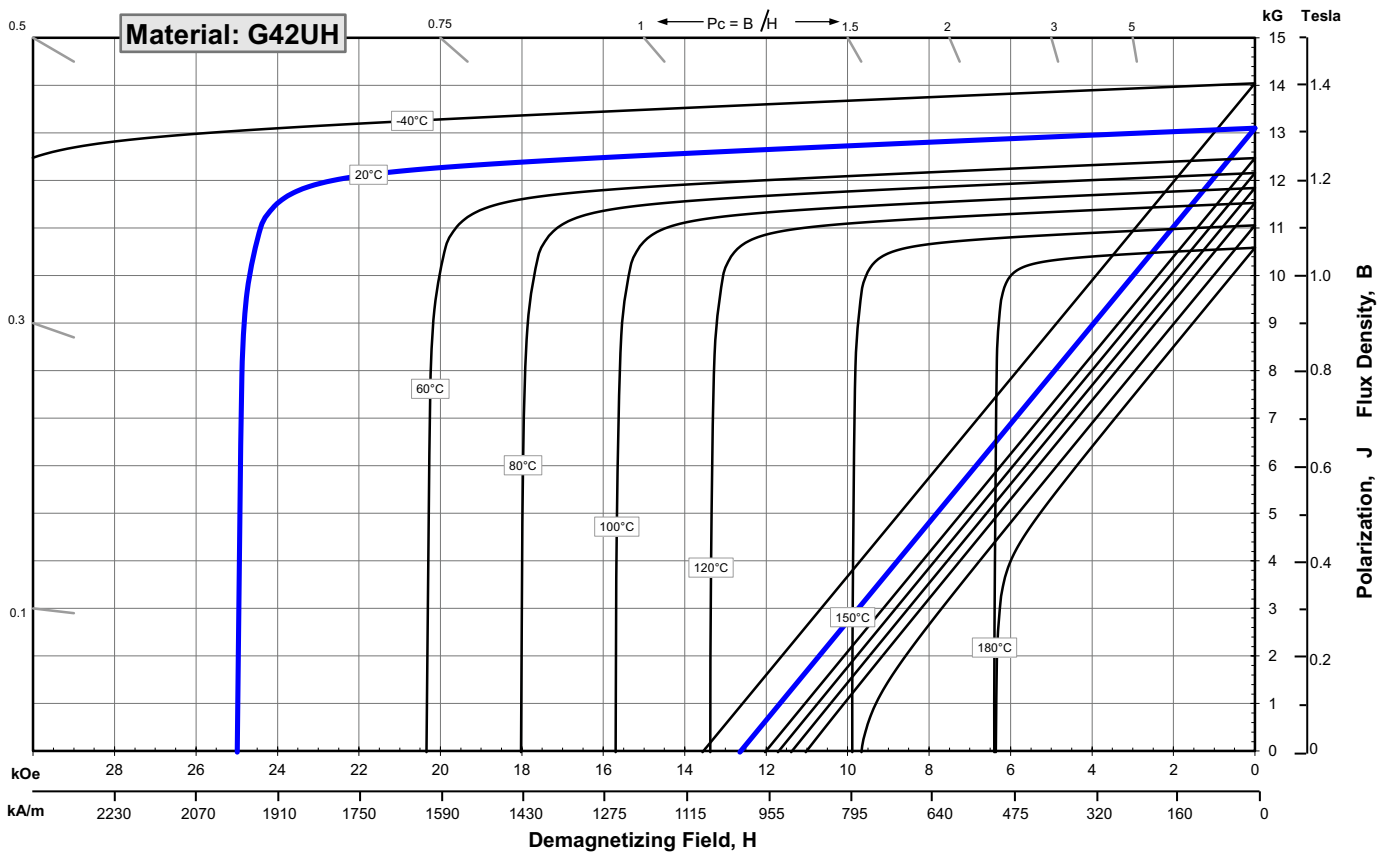
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,800	13,100	13,400
	mT	1280	1310	1340
H_{cB} , Coercivity	Oersteds	12,000	12,400	12,800
	kA/m	955	987	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	39	42	44
	kJ/m ³	310	330	350

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C x 10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	nW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
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1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum Hci. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

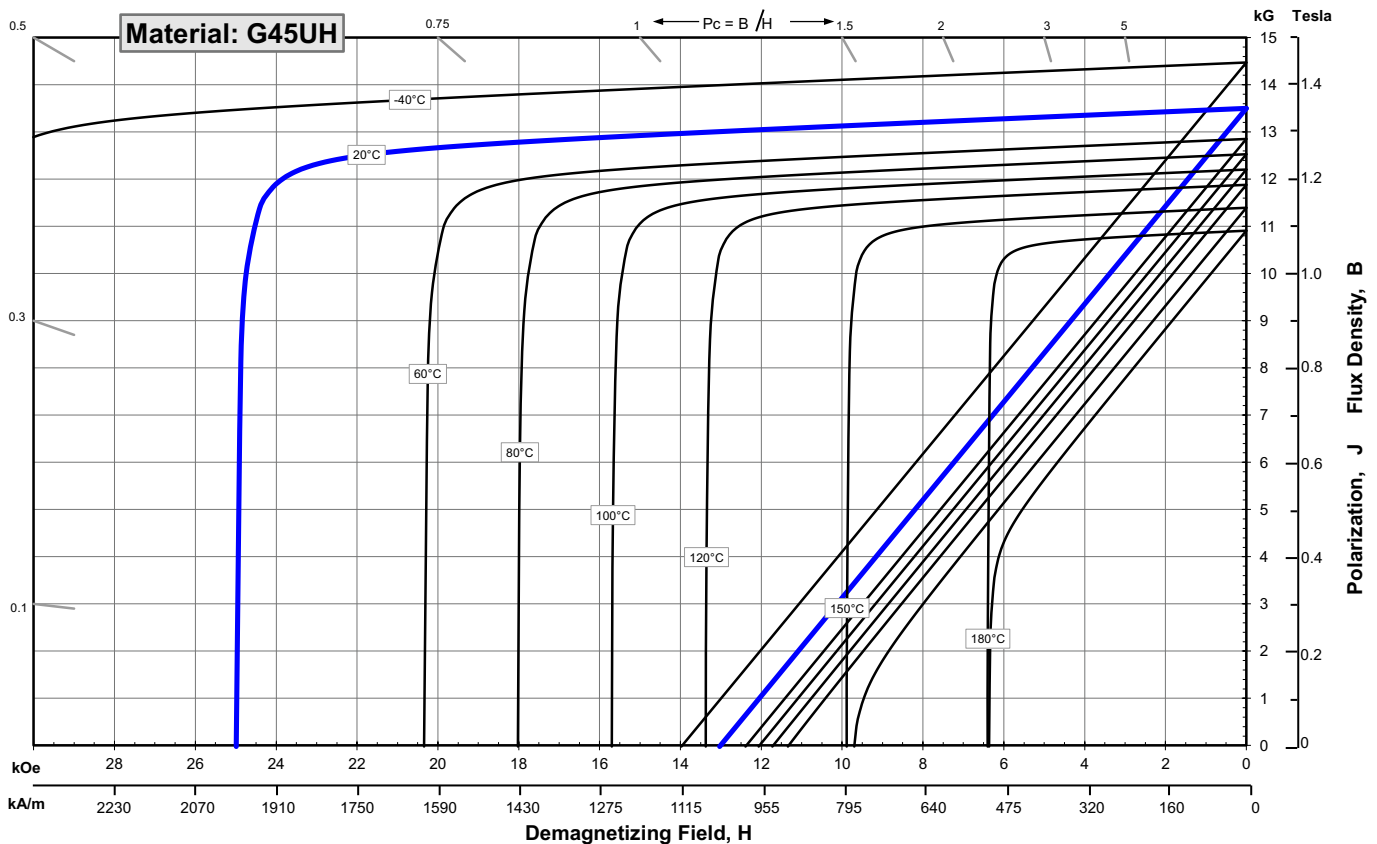
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,200	13,500	13,800
	mT	1320	1350	1380
H_{CB} , Coercivity	Oersteds	12,300	12,750	13,200
	kA/m	979	1015	1050
H_{CJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	43	45	46
	kJ/m ³	342	354	366

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C×10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

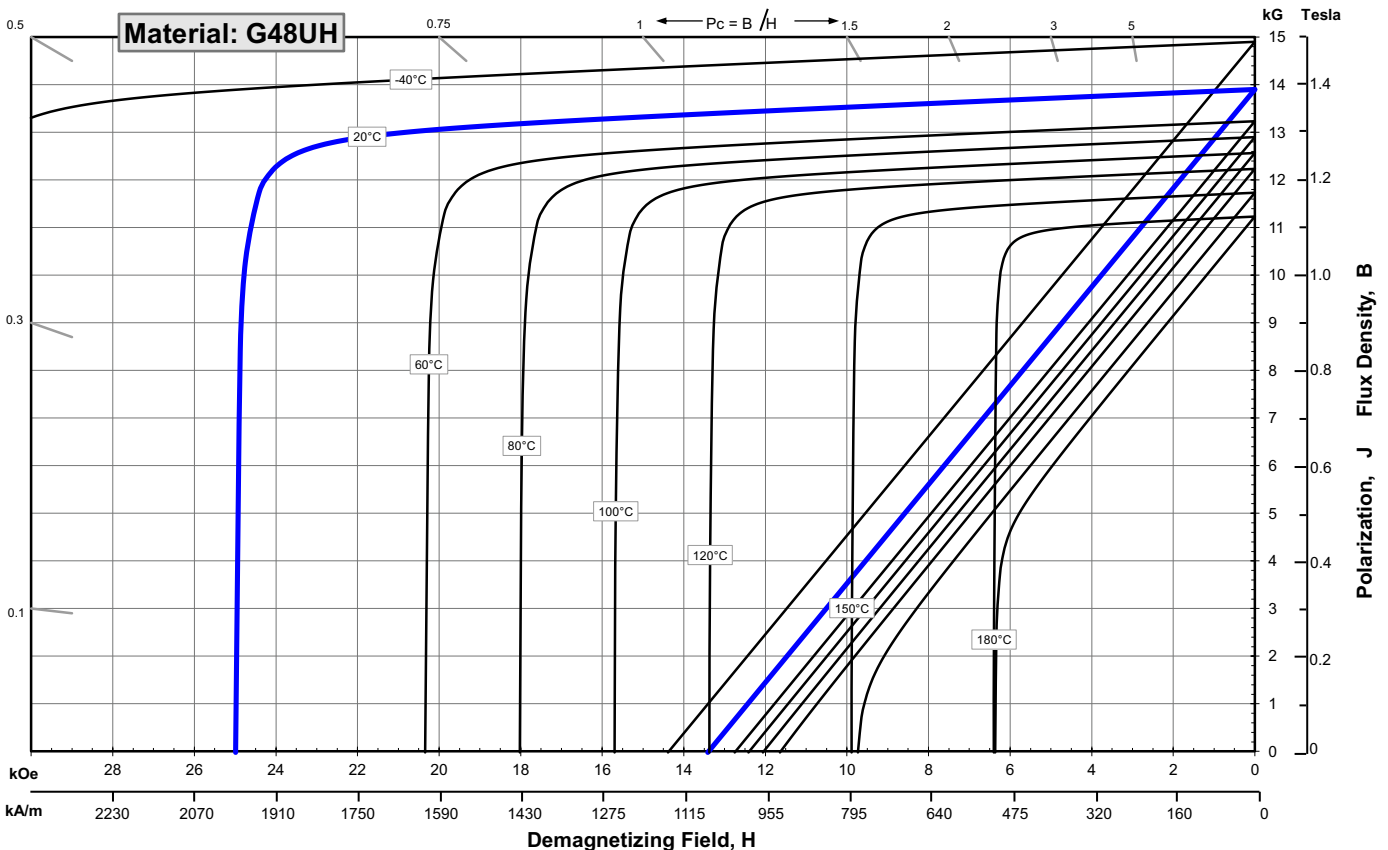
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,900	14,200
	mT	1360	1390	1420
H_{cB} , Coercivity	Oersteds	12,700	13,150	13,600
	kA/m	1011	1046	1082
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cJ})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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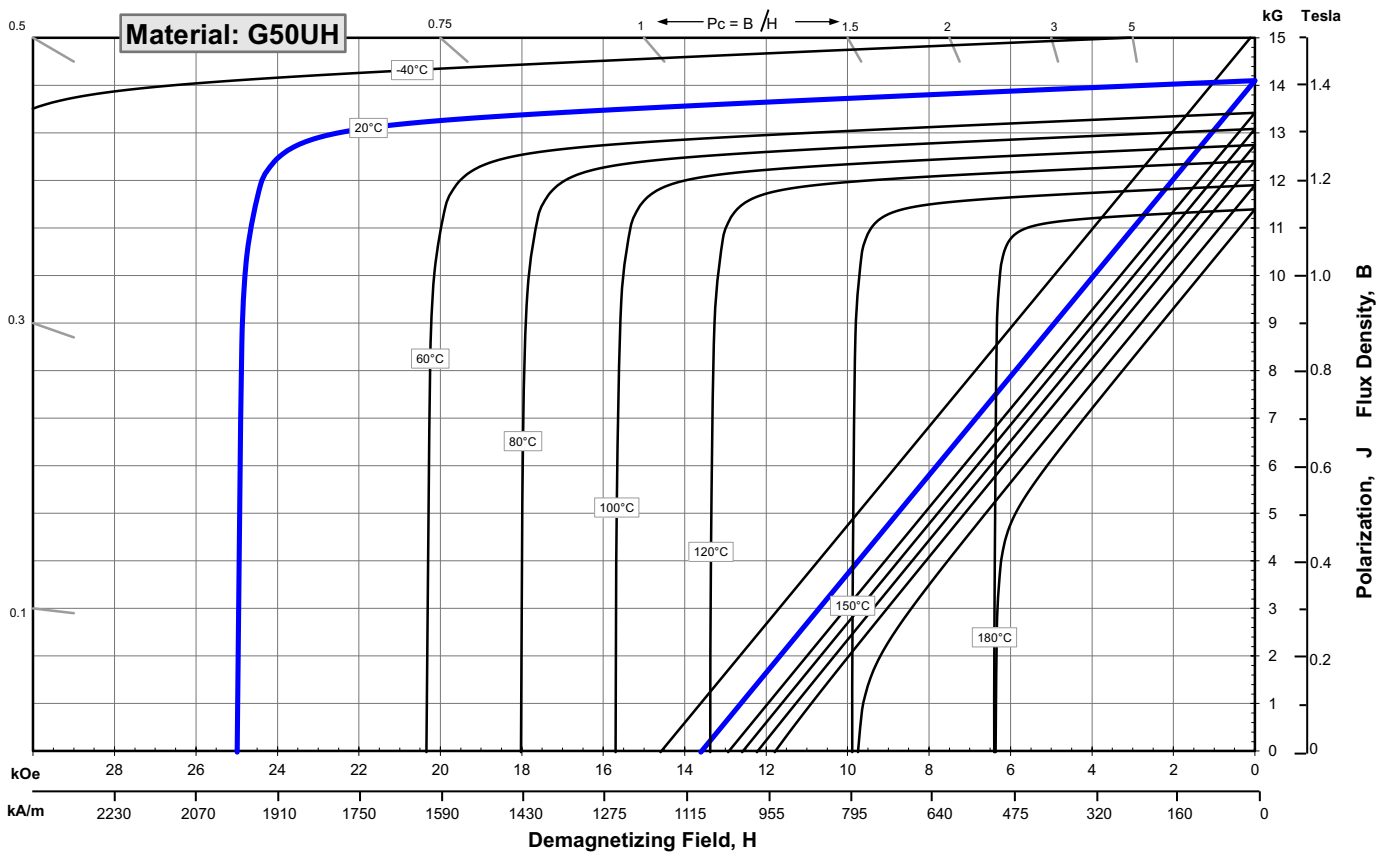
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,900	14,100
		mT	1390	1410	1440
H_{CB} , Coercivity		Oersteds	13,200	13,500	13,800
		kA/m	1051	1074	1098
H_{CJ} , Intrinsic Coercivity		Oersteds	25,000		
		kA/m	1,990		
BH_{max} , Maximum Energy Product		MGOe	46	49	51
		kJ/m ³	366	386	406

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.12	
of Coercivity, α(H _{cj})		%/°C		-0.47	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		kcal/mhr°C	5.3	5.8	
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.6
	Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
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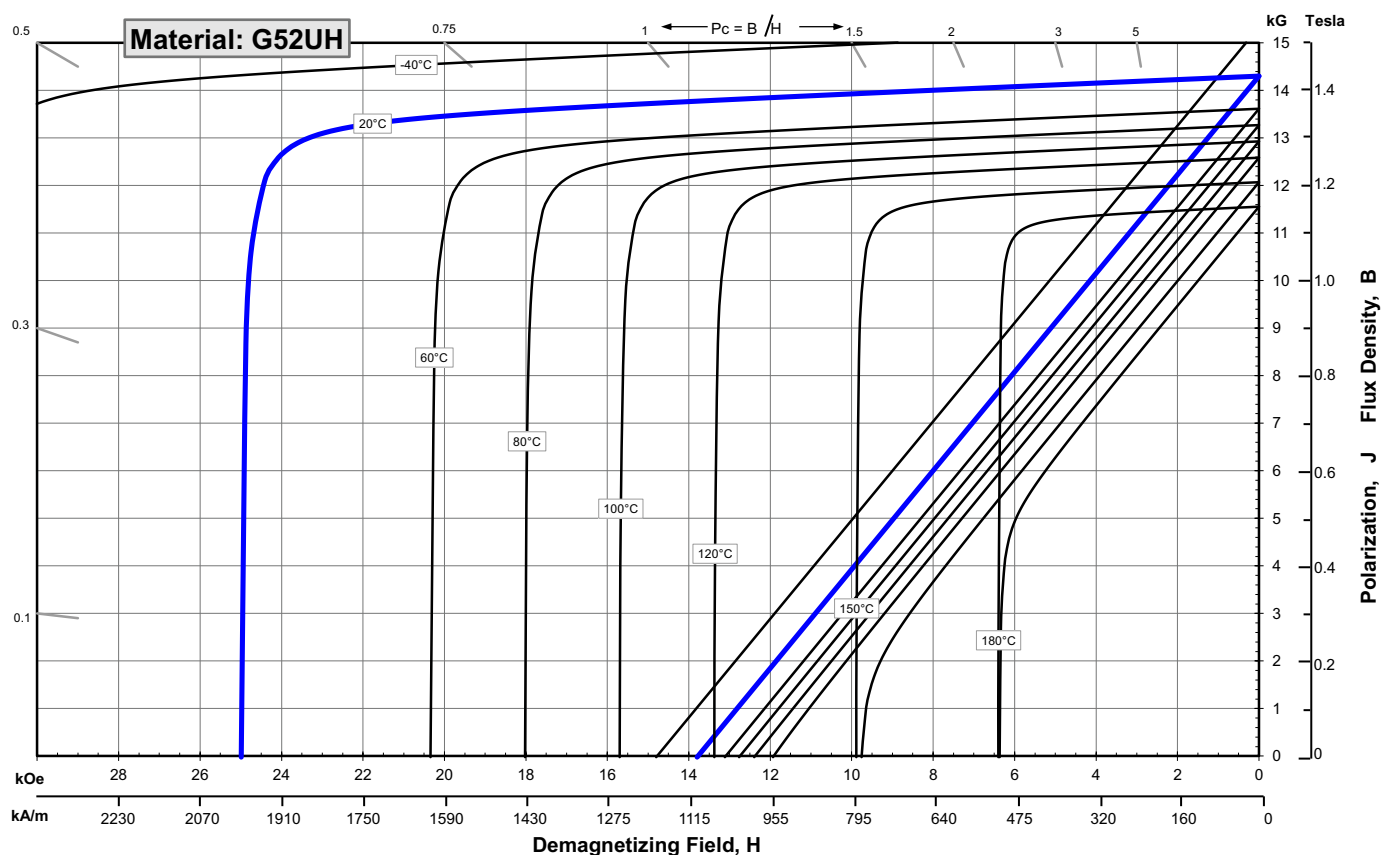
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	14,100	14,300	14,500
	mT	1410	1430	1450
H_{CB} , Coercivity	Oersteds	13,400	13,650	13,900
	kA/m	1067	1086	1106
H_{CJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	47	50	52
	kJ/m ³	374	394	414

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{Cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
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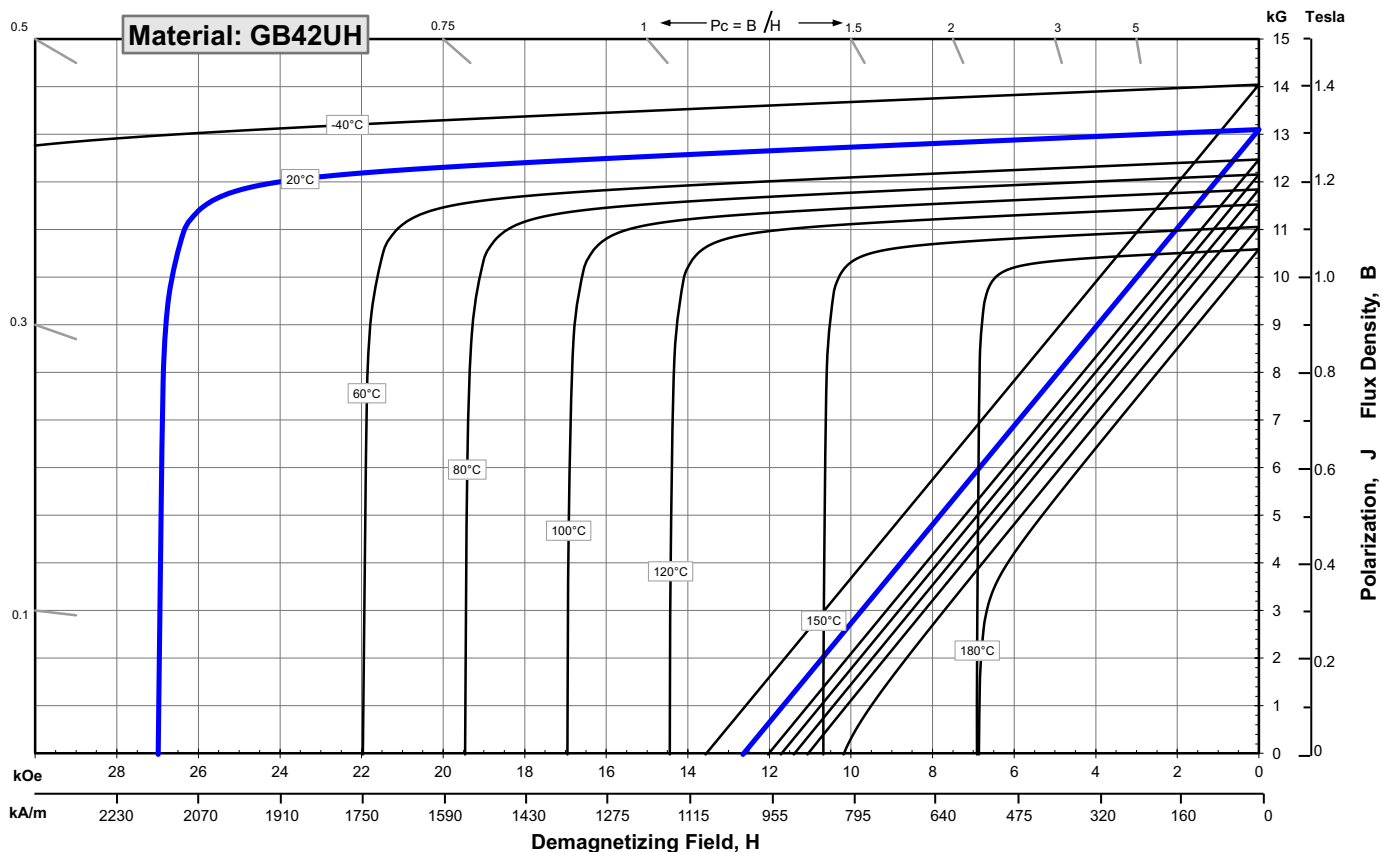
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,800	13,100	13,400
	mT	1280	1310	1340
H_{cB} , Coercivity	Oersteds	12,000	12,400	12,800
	kA/m	955	987	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	27,000		
	kA/m	2,149		
BH_{max} , Maximum Energy Product	MGOe	39	42	44
	kJ/m ³	310	330	350

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C x 10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	nW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
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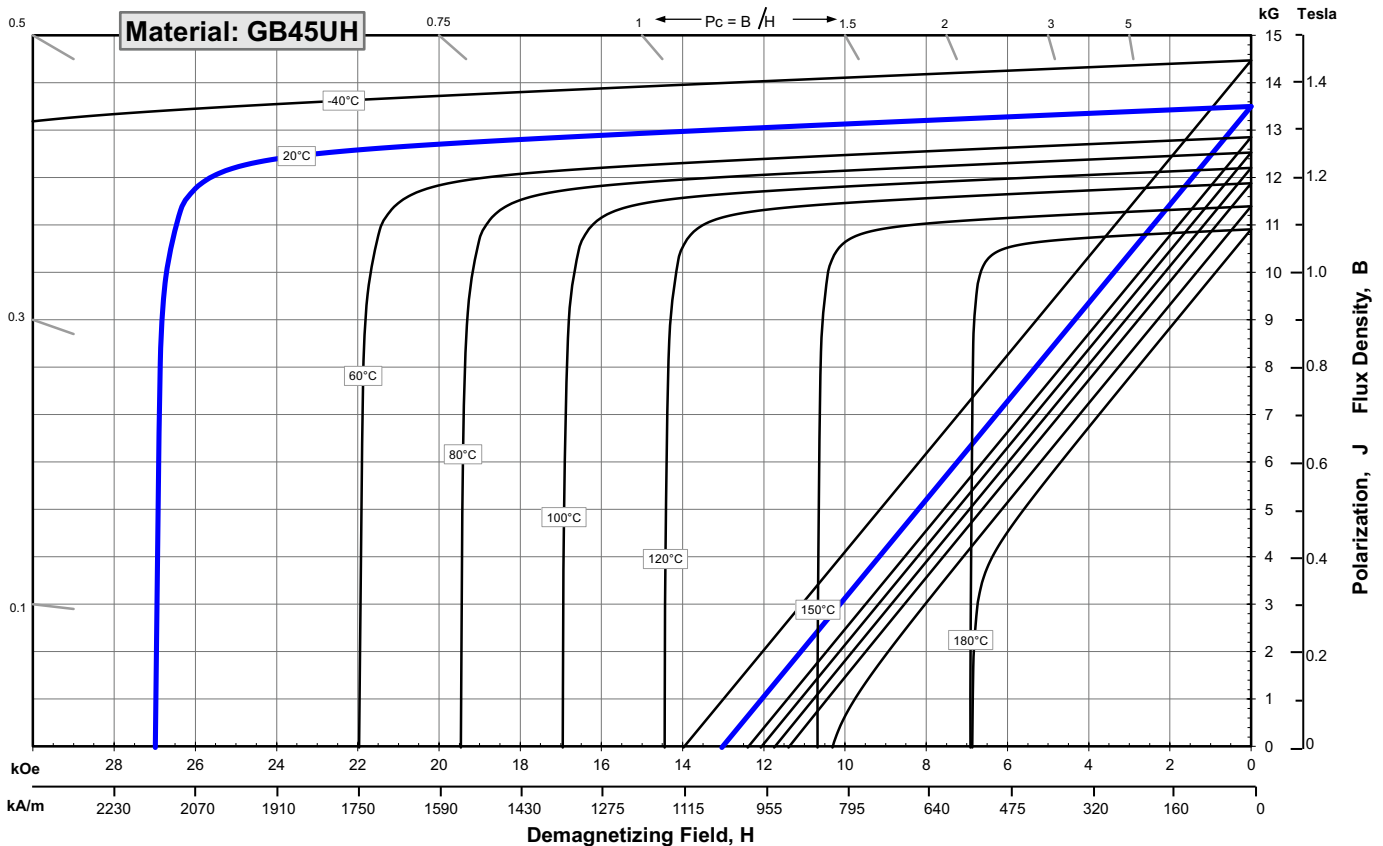
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,200	13,500	13,800
	mT	1320	1350	1380
H_{cB} , Coercivity	Oersteds	12,300	12,750	13,200
	kA/m	979	1015	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	27,000		
	kA/m	2,149		
BH_{max} , Maximum Energy Product	MGOe	43	45	46
	kJ/m ³	342	354	366

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C×10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mh°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
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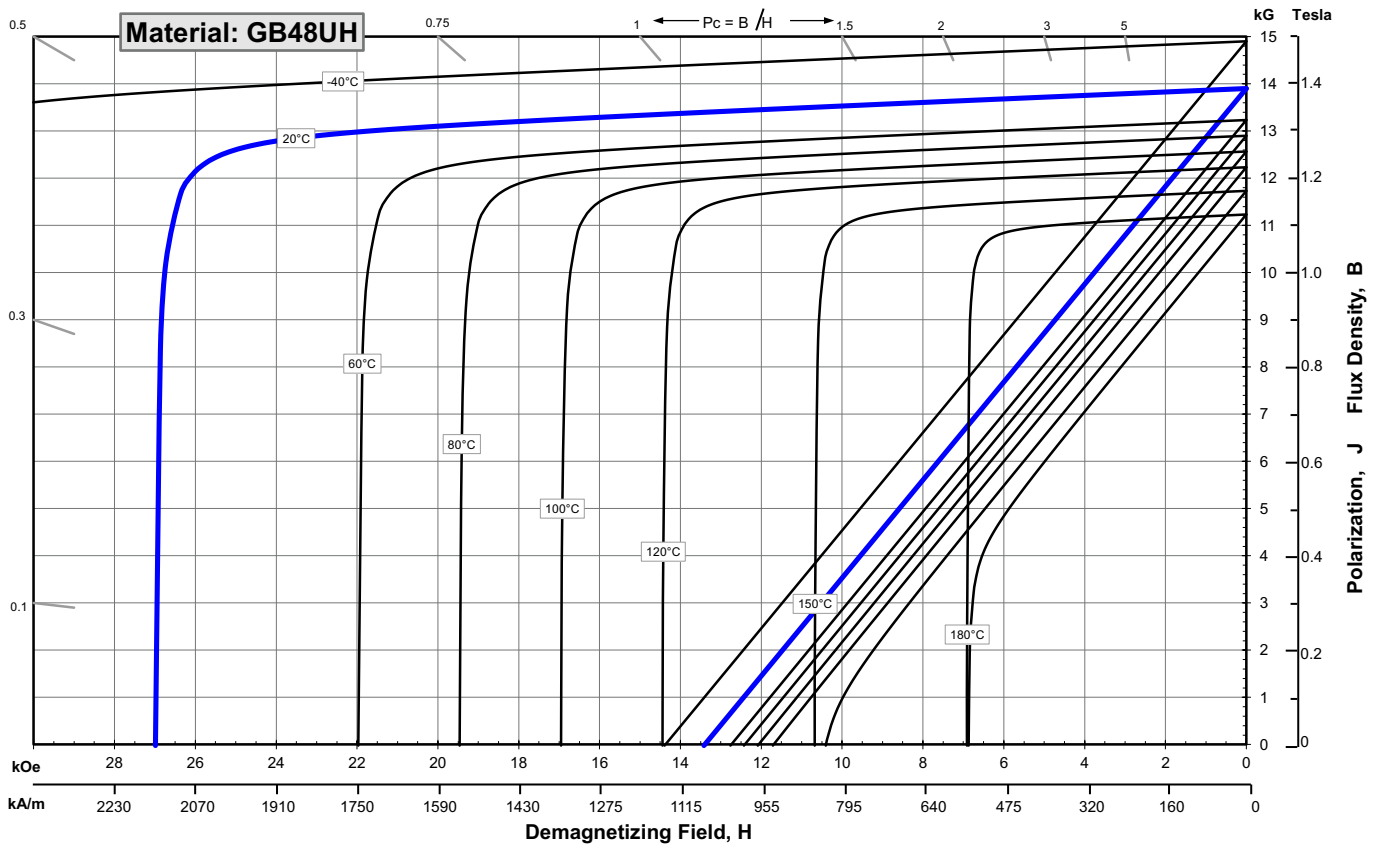
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,600	13,900	14,200
	mT	1360	1390	1420
H_{CB} , Coercivity	Oersteds	12,700	13,150	13,600
	kA/m	1011	1046	1082
H_{CJ} , Intrinsic Coercivity	Oersteds	27,000		
	kA/m	2,419		
BH_{max} , Maximum Energy Product	MGOe	45	47	49
	kJ/m ³	358	374	390

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C x 10 ⁻⁵	7.5	-0.1
Thermal Conductivity	kcal/mh°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	nW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
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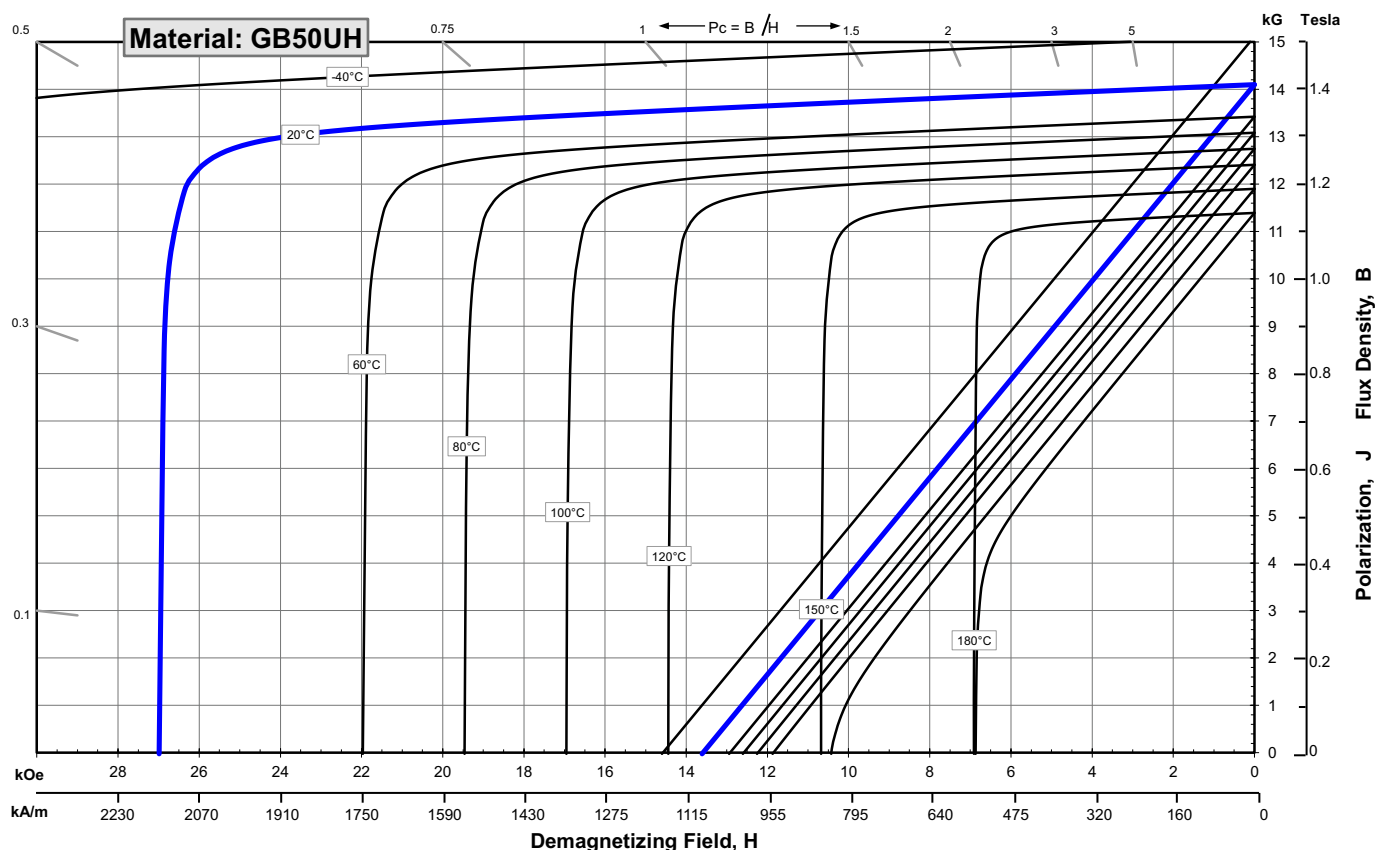
Sintered Neodymium-Iron-Boron Magnets

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Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,900	14,100
		mT	1390	1410	1440
H_{cB} , Coercivity		Oersteds	13,200	13,500	13,800
		kA/m	1051	1074	1098
H_{cJ} , Intrinsic Coercivity		Oersteds	27,000		
		kA/m	2,449		
BH_{max} , Maximum Energy Product		MGOe	46	49	51
		kJ/m ³	366	386	406

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.12	
of Coercivity, α(H _{cj})		%/°C		-0.47	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		kcal/mhr°C	5.3	5.8	
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.6
Hardness, Vickers	Hv			620	
Electrical Resistivity, ρ	ρtW • cm			150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

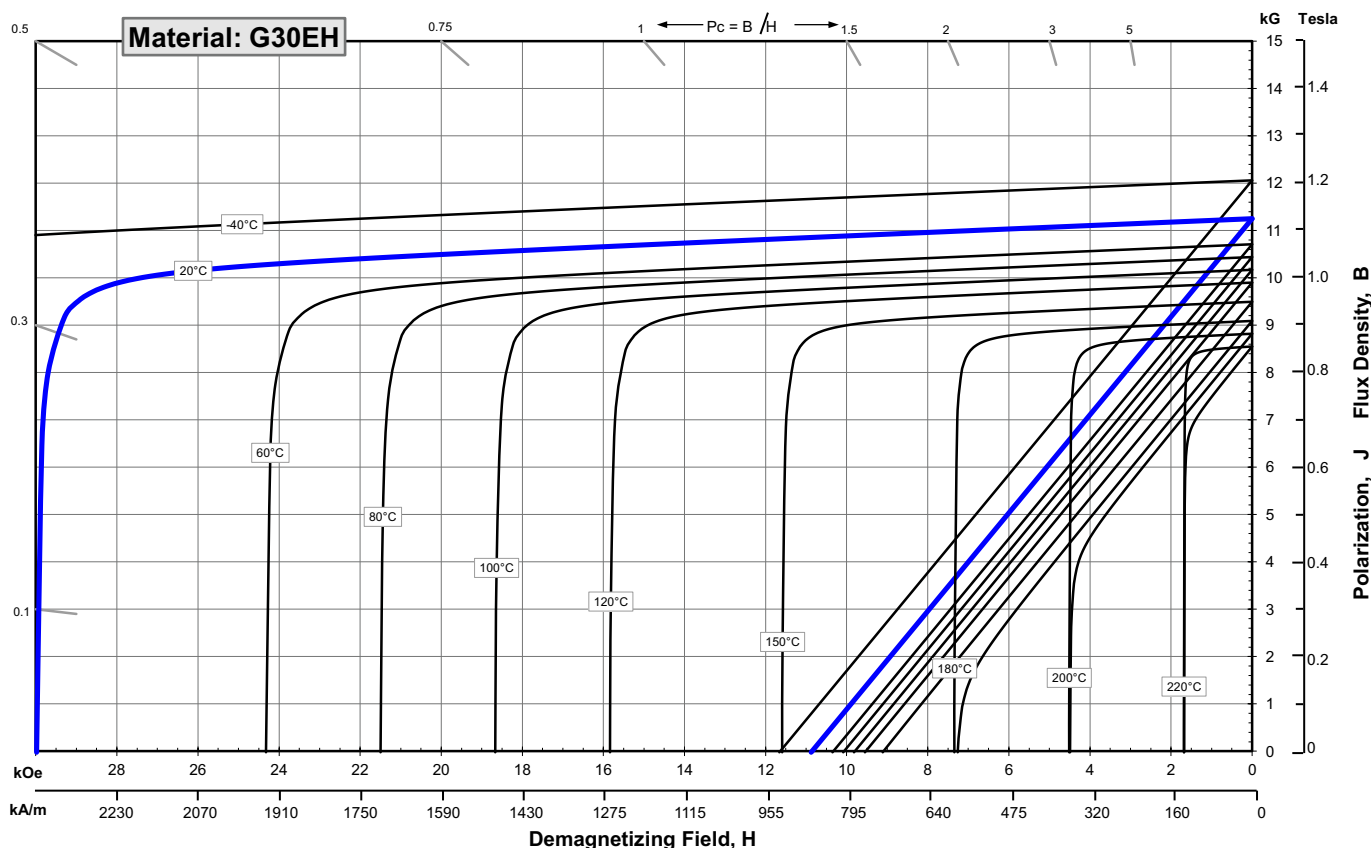
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
B_r , Residual Induction	Gauss	10,800	11,250	11,700
	mT	1080	1125	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	28	31	33
	kJ/m^3	223	243	263

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾	of Induction, $\alpha(B_r)$	%/°C	-0.12
	of Coercivity, $\alpha(H_{cJ})$	%/°C	-0.47
	Coefficient of Thermal Expansion ⁽²⁾	$\Delta L/L$ per °C x 10^{-6}	7.5
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T_c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm^3	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	$\text{m}\Omega \cdot \text{cm}$	150 // 130 \perp

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal B_r and minimum H_{cJ} . Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

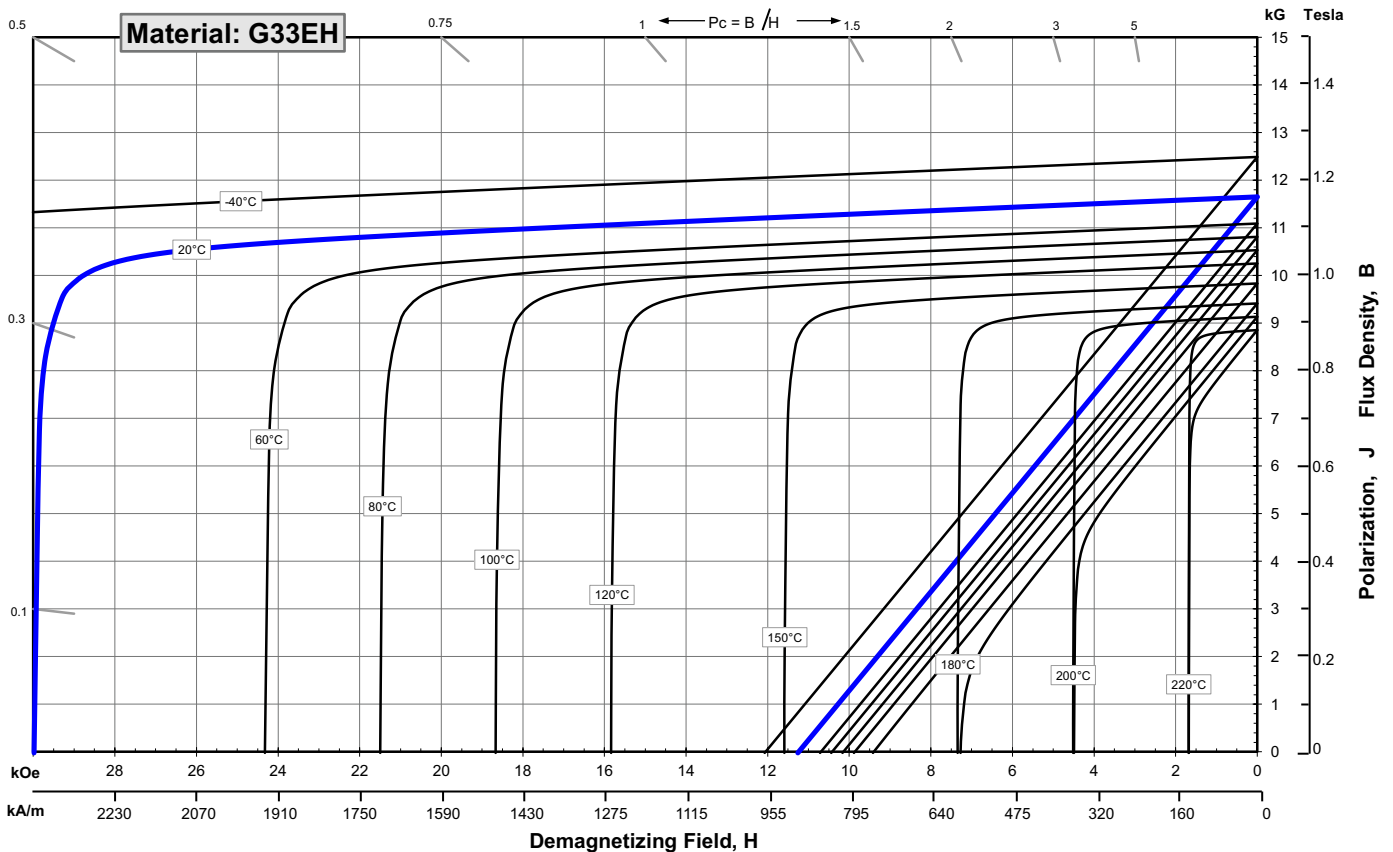
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,300	11,650	12,000
	mT	1130	1165	1200
H_{CB} , Coercivity	Oersteds	10,300	10,900	11,500
	kA/m	820	867	915
H_{CJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	nW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

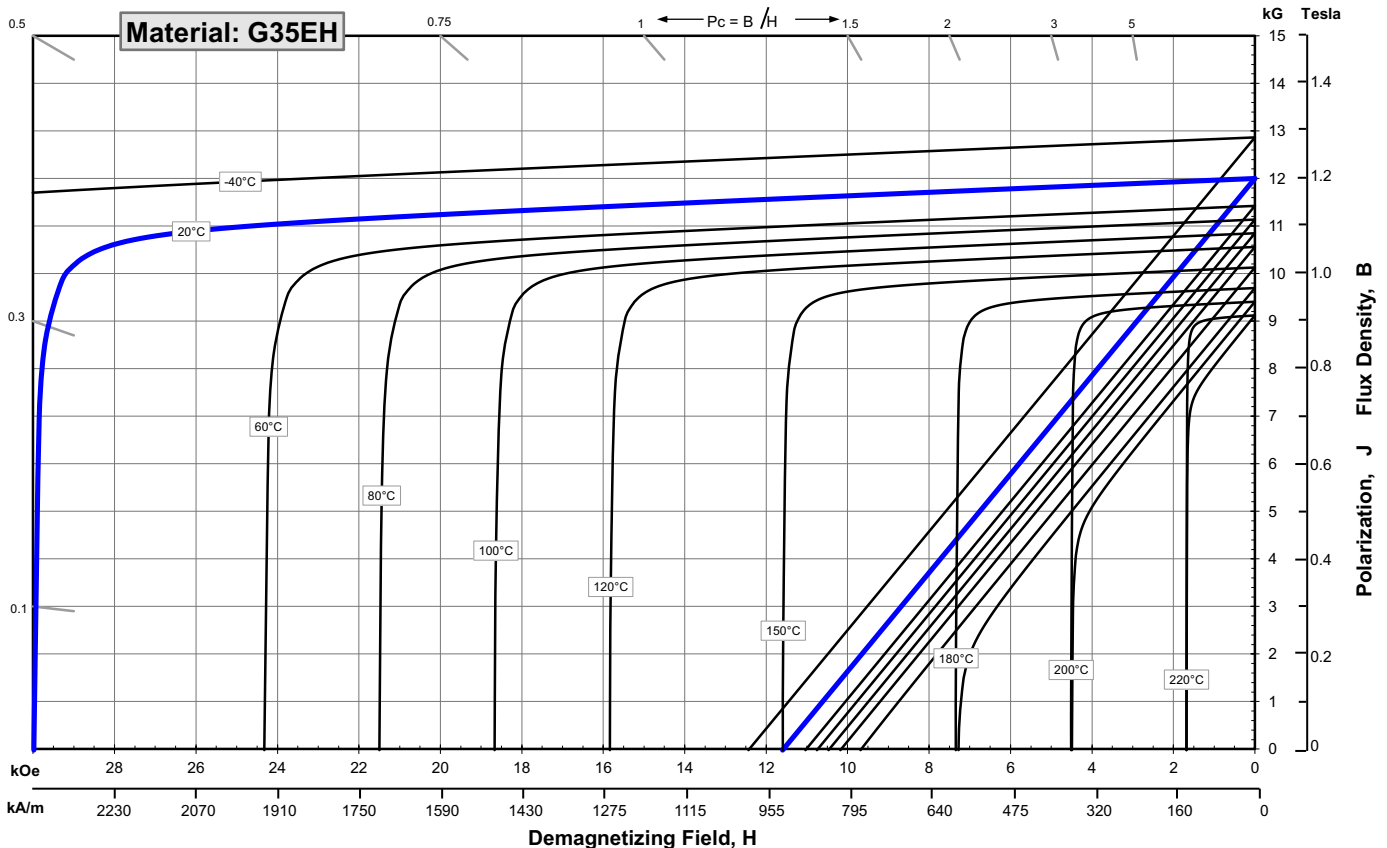
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,700	12,000	12,300
	mT	1170	1200	1230
H_{CB} , Coercivity	Oersteds	10,500	11,150	11,800
	kA/m	836	887	939
H_{CJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	33	35	37
	kJ/m ³	263	279	295

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(Hcj)	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, Tc	°C	310	
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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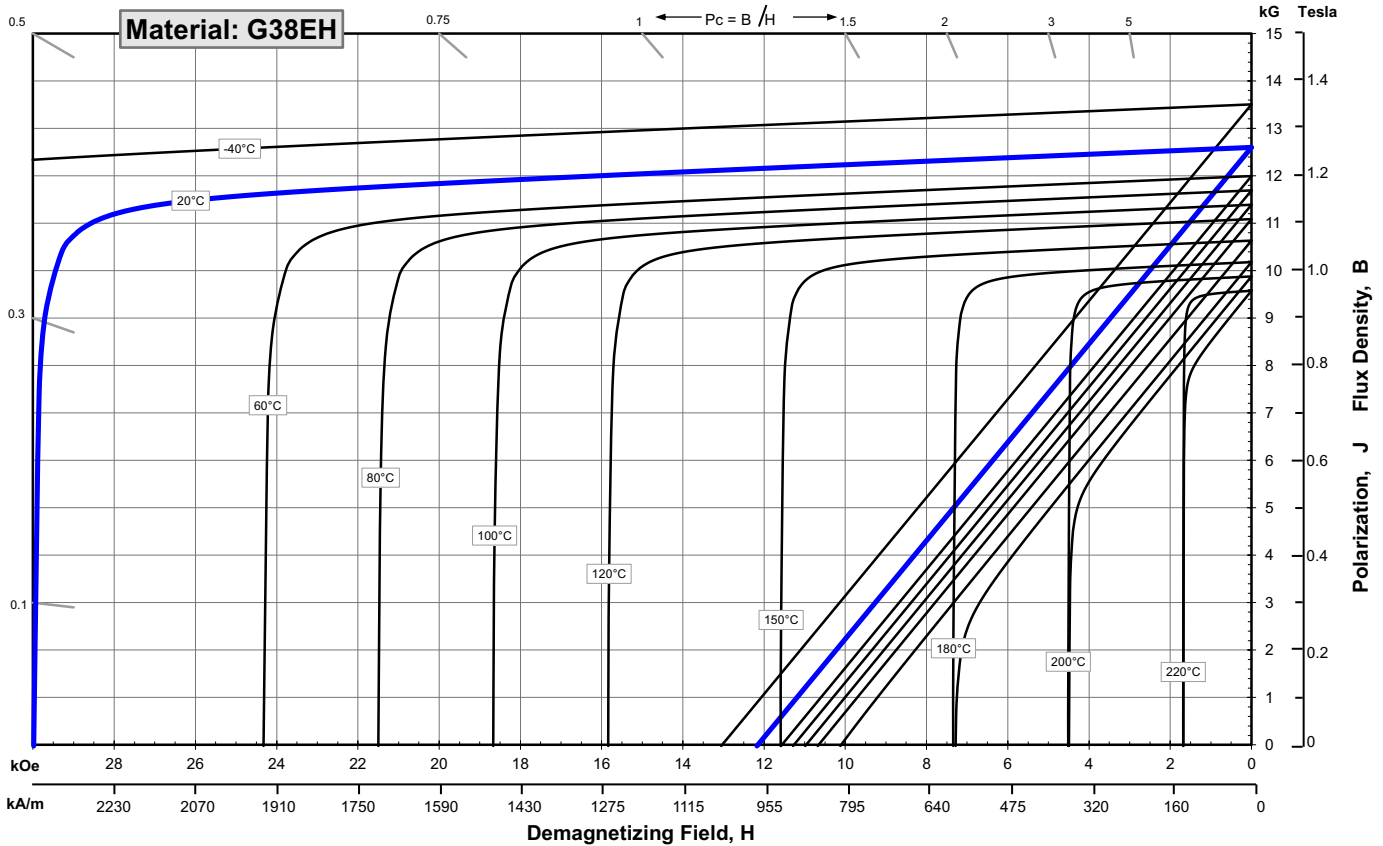
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,200	12,600	13,000
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400
	kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C // C ^		
		C //	C ^	
Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12	
	of Coercivity, α(H _{cj})	%/°C	-0.47	
	Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C×10 ⁻⁶	7.5	-0.1
	Thermal Conductivity	kcal/mh°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11		
Curie Temperature, T _c	°C	310		
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	nW·cm	150 // 130	↓

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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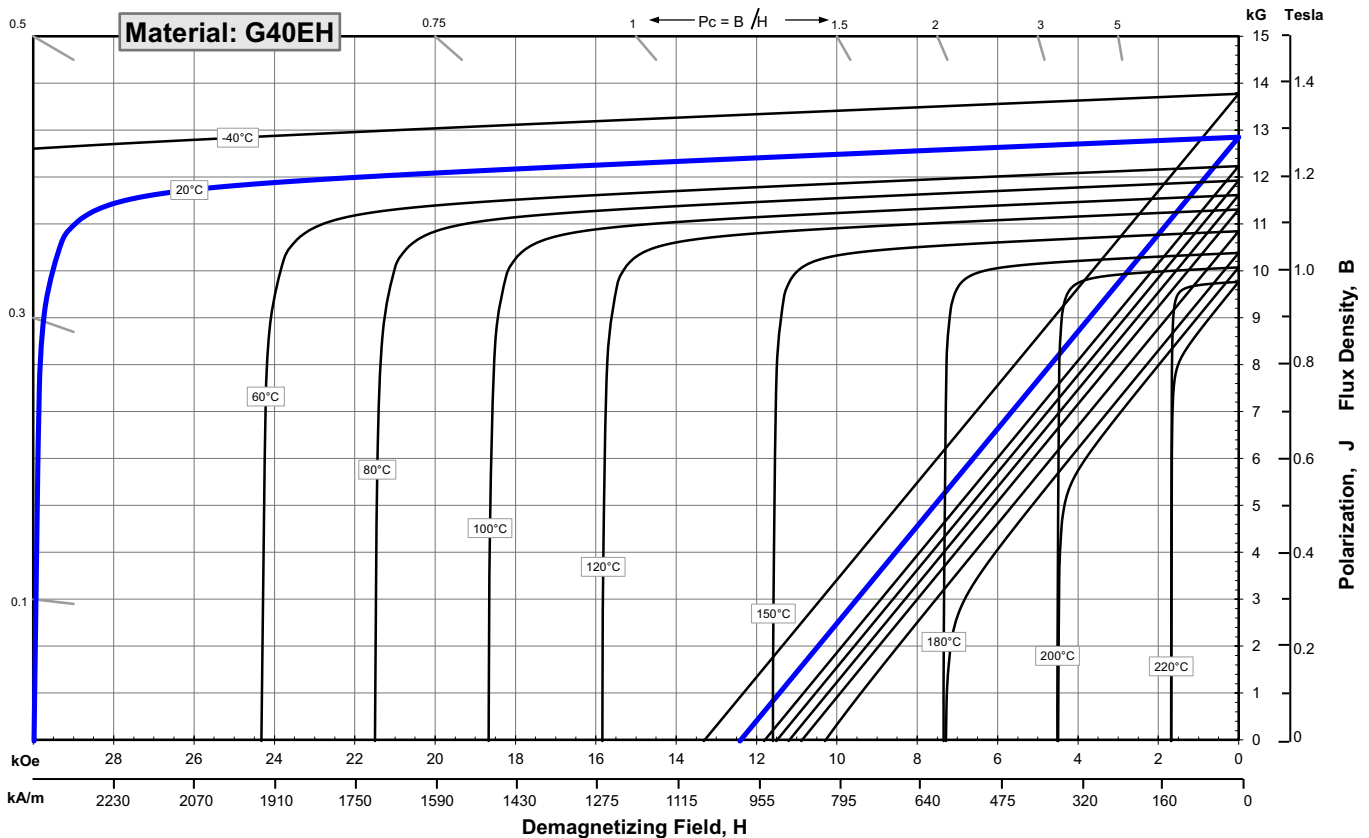
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,850	13,200
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,500	12,050	12,600
	kA/m	915	959	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	Thermal Properties		
		C //	C ^	
Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12	
	of Coercivity, α(H _{cj})	%/°C	-0.47	
	Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C x 10 ⁻⁶	7.5	-0.1
	Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11		
Curie Temperature, T _c	°C	310		
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	nW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

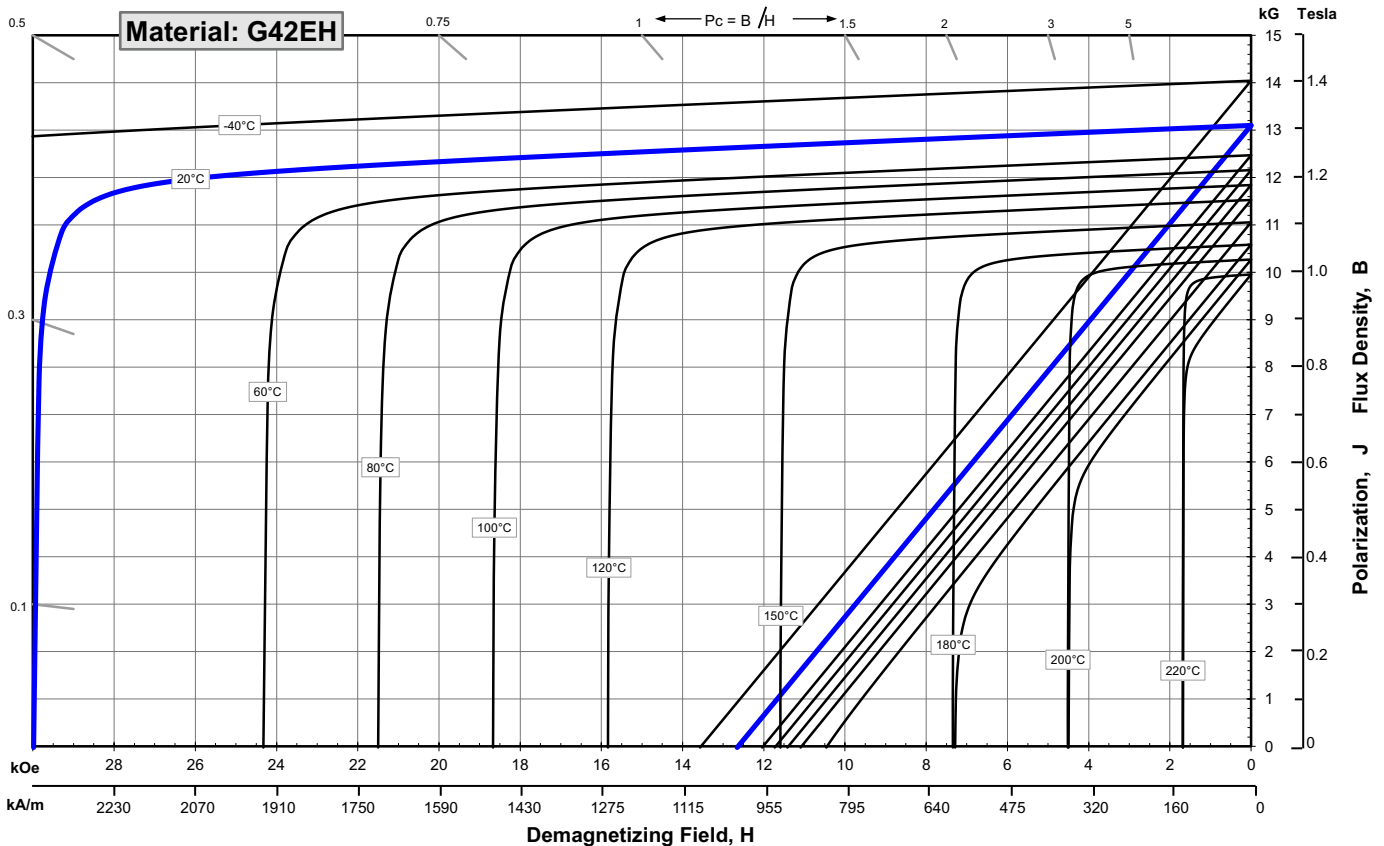
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction	Gauss	12,800	13,100	13,400
	mT	1280	1310	1340	
H_{CB} , Coercivity	Oersteds	12,000	12,400	12,800	
	kA/m	955	987	1019	
H_{CJ} , Intrinsic Coercivity	Oersteds	30,000			
	kA/m	2,388			
BH_{max} , Maximum Energy Product	MGOe	39	42	44	
	kJ/m ³	310	330	350	

Thermal Properties	Characteristic	Units	C //	C ^
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾		
of Induction, α(Br)		%/°C		-0.12
of Coercivity, α(Hcj)		%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity		kcal/mhr°C	5.3	5.8
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11
	Curie Temperature, T _c	°C		310
	Flexural Strength	psi		41,300
		MPa		285
	Density	g/cm ³		7.6
Hardness, Vickers	Hv		620	
Electrical Resistivity, r	nW·cm		150 // 130	⊥

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum Hcj. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

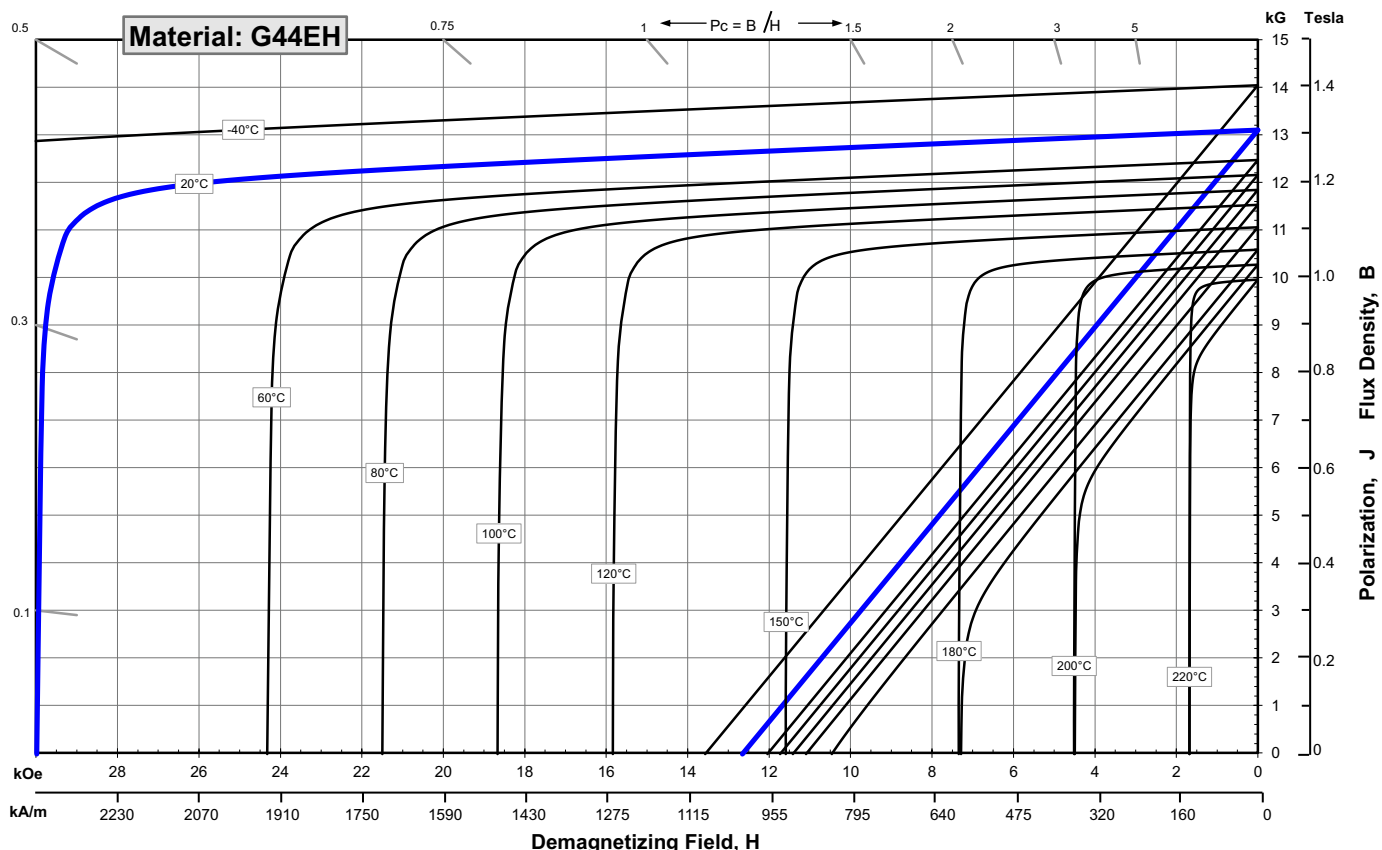
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,900	13,100	13,400
	mT	1290	1310	1340
H_{cB} , Coercivity	Oersteds	12,200	12,500	12,800
	kA/m	971	995	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	40	43	45
	kJ/m ³	318	338	358

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mh°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

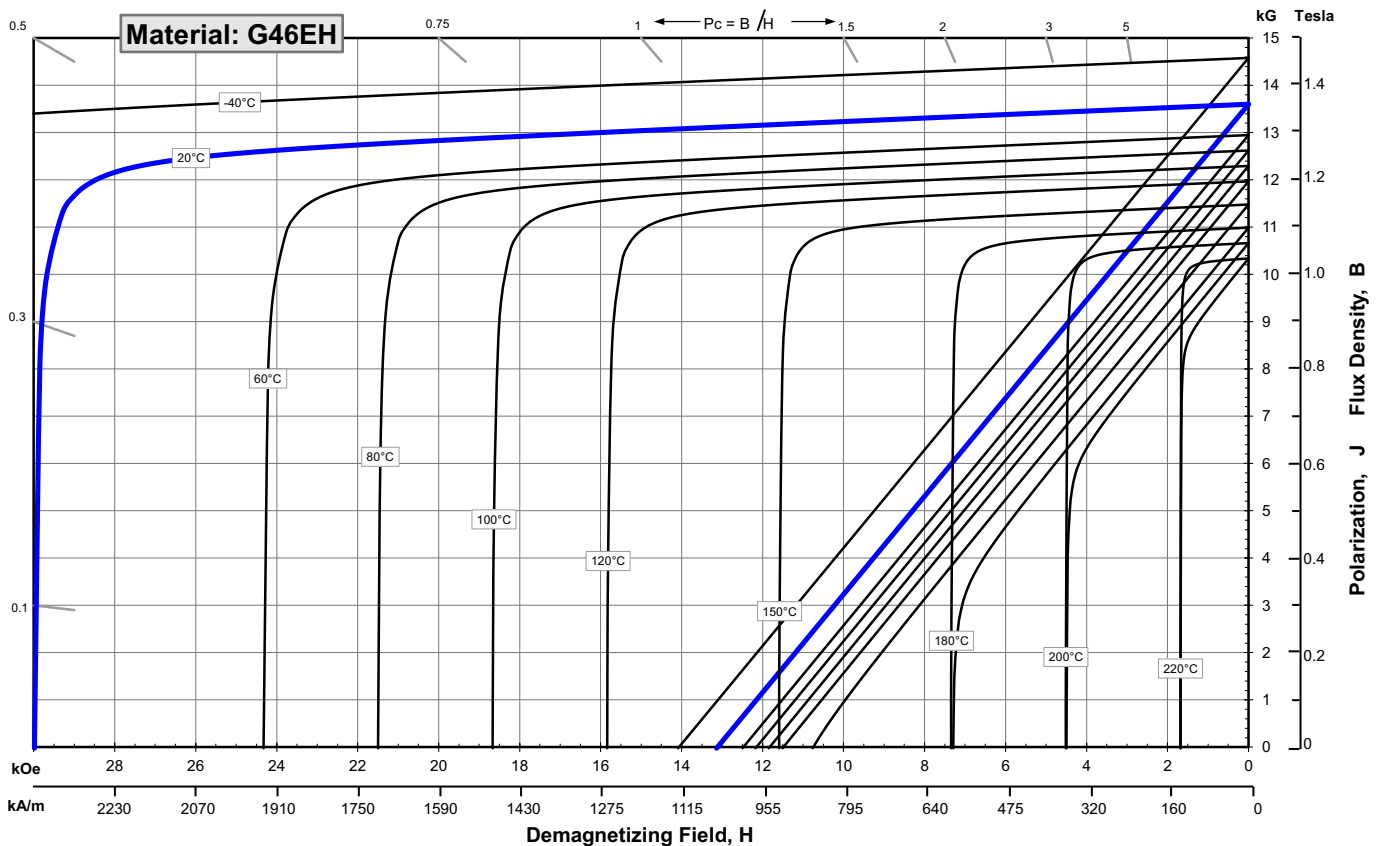
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,400	13,600	13,800
	mT	1340	1360	1380
H_{cB} , Coercivity	Oersteds	12,700	12,950	13,200
	kA/m	1011	1031	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	43	46	48
	kJ/m ³	342	362	382

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C x 10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	nW • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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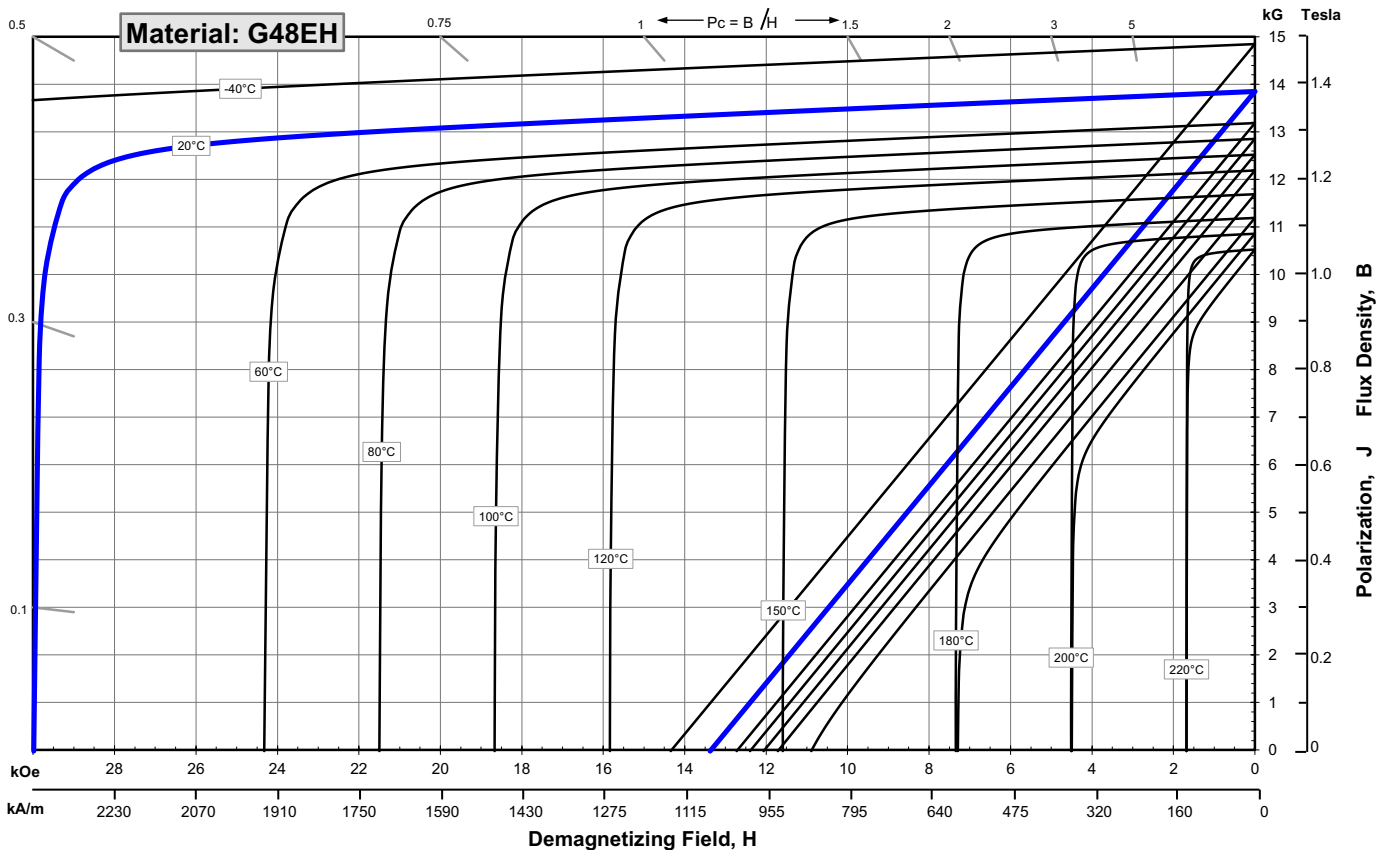
Sintered Neodymium-Iron-Boron Magnets

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Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction	Gauss	13,600	13,850	14,100
mT		1360	1385	1410	
H_{cB} , Coercivity	Oersteds	12,900	13,200	13,500	
	kA/m	1027	1050	1074	
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000			
	kA/m	2,388			
BH_{max} , Maximum Energy Product	MGOe	44	47	49	
	kJ/m ³	350	370	390	

Thermal Properties	Characteristic	Units	C //	°C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.12	
of Coercivity, α(H _{cj})		%/°C		-0.47	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °C x 10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		kcal/mhr°C	5.3	5.8	
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11	
	Curie Temperature, T _c	°C		310	
	Flexural Strength	psi			41,300
		MPa			285
	Density	g/cm ³			7.6
	Hardness, Vickers	Hv			620
Electrical Resistivity, r	nW • cm			150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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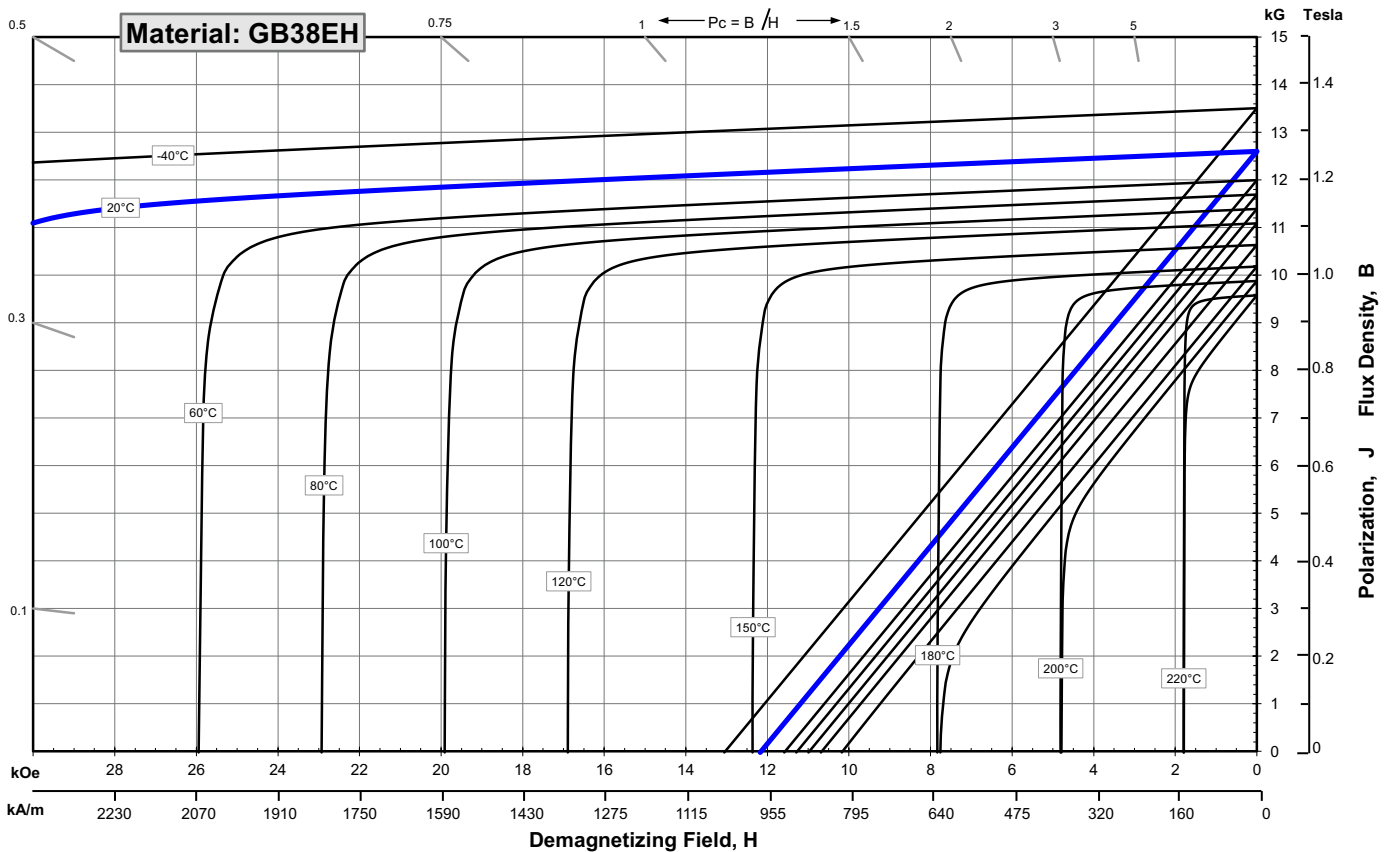
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br_r , Residual Induction	Gauss	12,200	12,600	13,000
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400
	kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity	Oersteds	32,000		
	kA/m	2,547		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 200 °C
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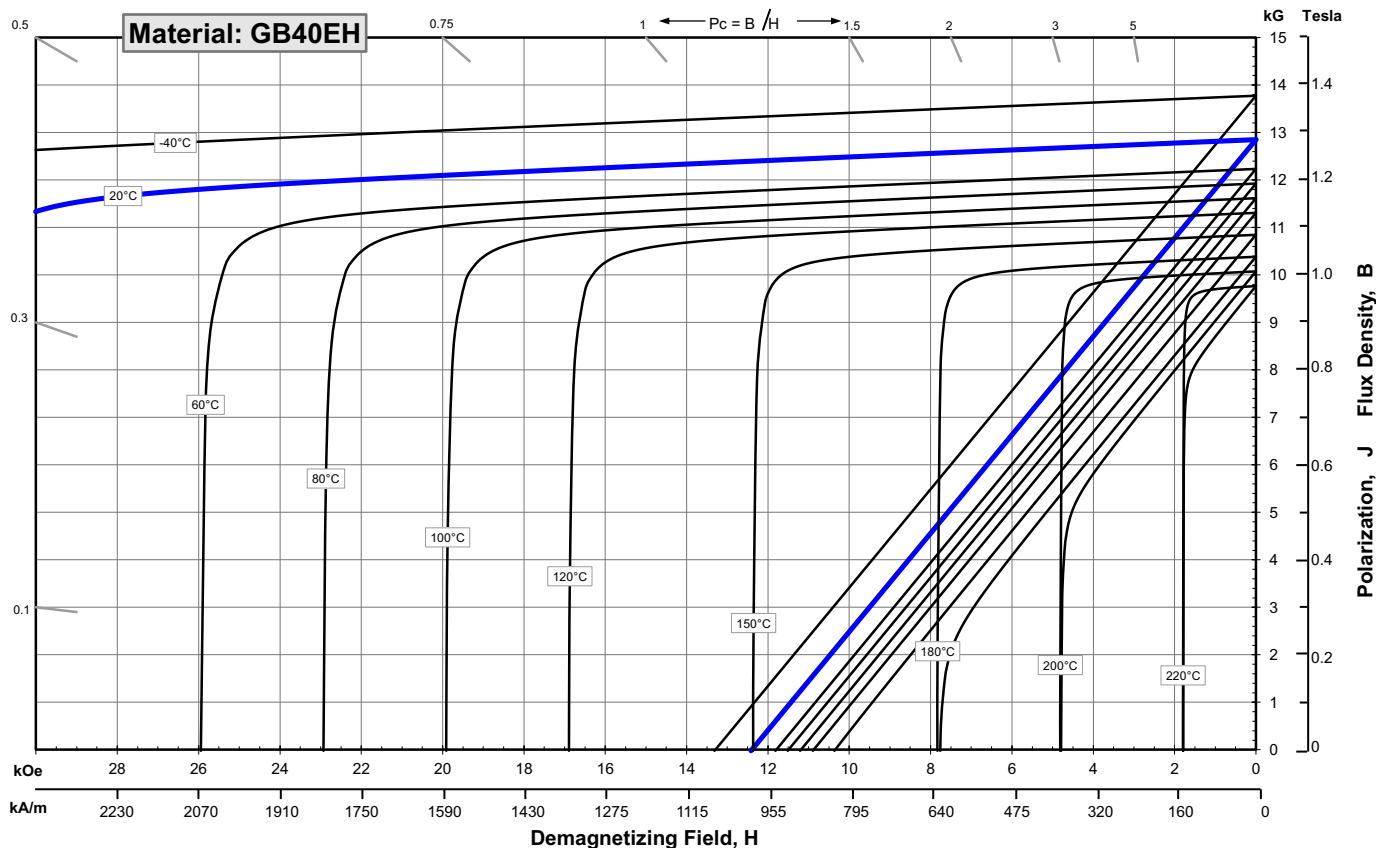
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,850	13,200
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,500	12,050	12,600
	kA/m	915	959	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	32,000		
	kA/m	2,547		
BH_{max} , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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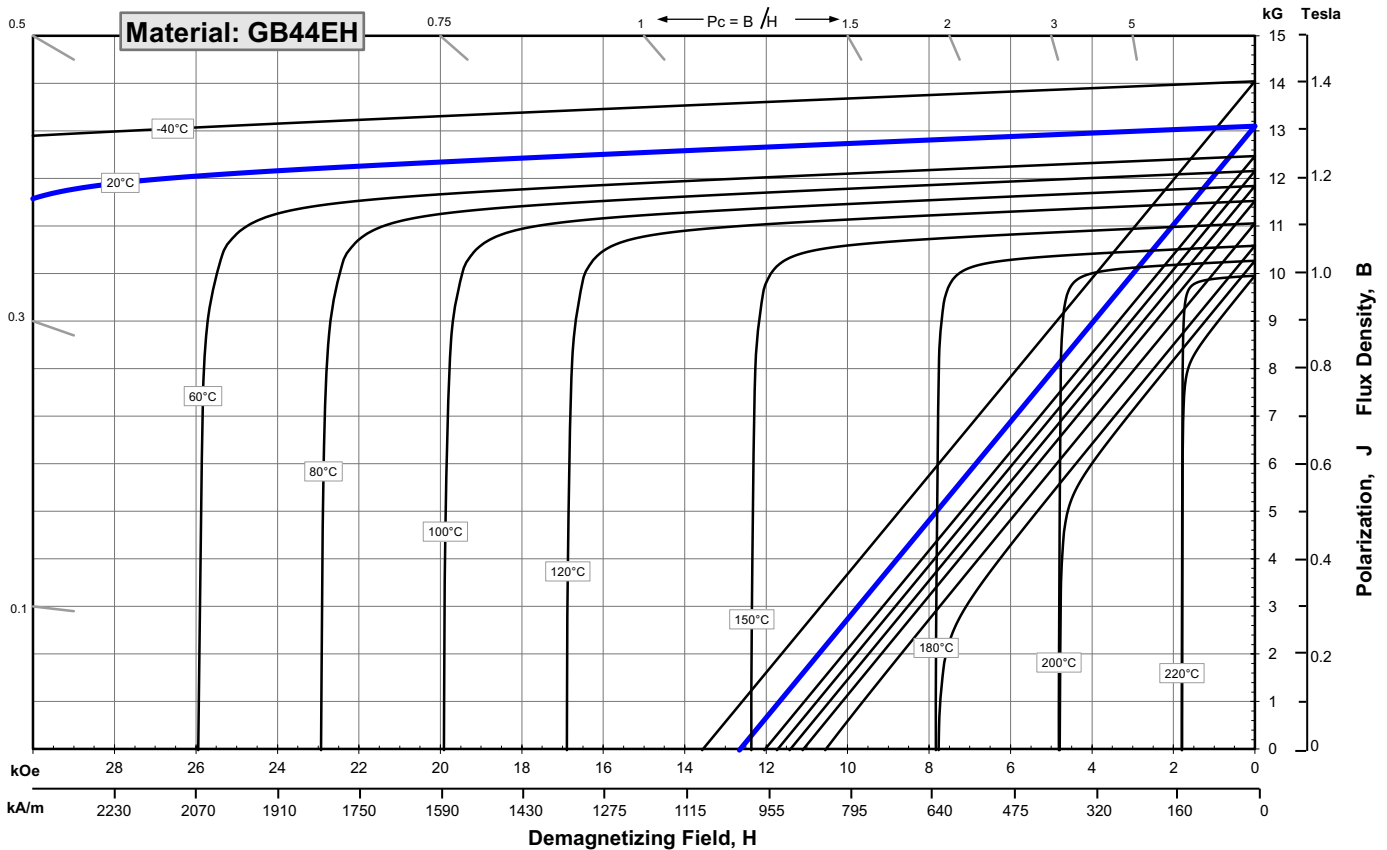
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,900	13,100	13,400
	mT	1290	1310	1340
H_{CB} , Coercivity	Oersteds	12,200	12,500	12,800
	kA/m	971	995	1019
H_{CJ} , Intrinsic Coercivity	Oersteds	32,000		
	kA/m	2,547		
BH_{max} , Maximum Energy Product	MGOe	40	43	45
	kJ/m ³	318	338	358

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(Hcj)	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, Tc	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum Hcj. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

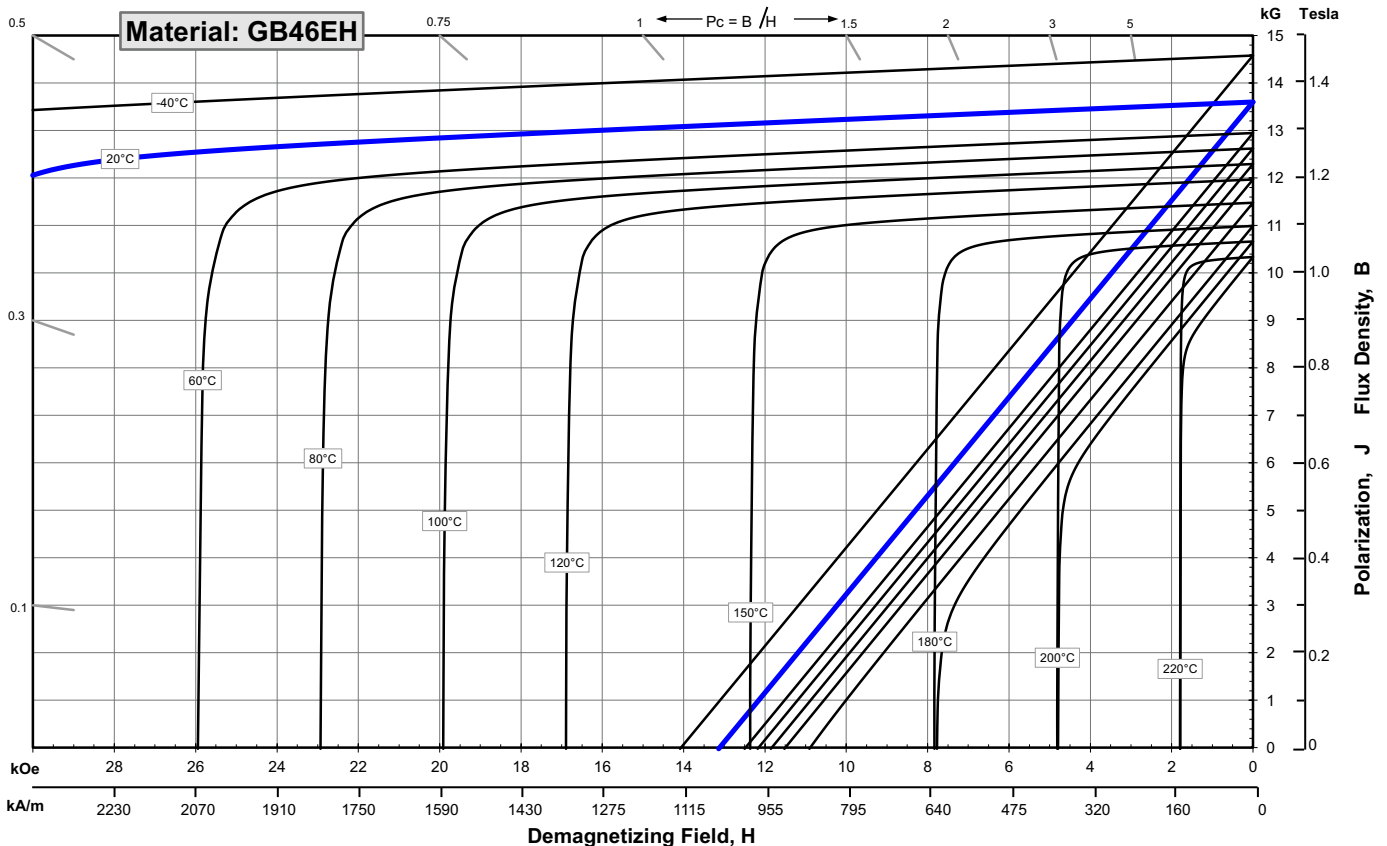
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,400	13,600
		mT	1340	1360	1380
H_{cB} , Coercivity		Oersteds	12,700	12,950	13,200
		kA/m	1011	1031	1050
H_{cJ} , Intrinsic Coercivity		Oersteds	32,000		
		kA/m	2,547		
BH_{max} , Maximum Energy Product		MGOe	43	46	48
		kJ/m ³	342	362	382

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.12	
of Coercivity, α(H _{cj})		%/°C		-0.47	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		kcal/mhr°C	5.3	5.8	
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.6
	Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW·cm			150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

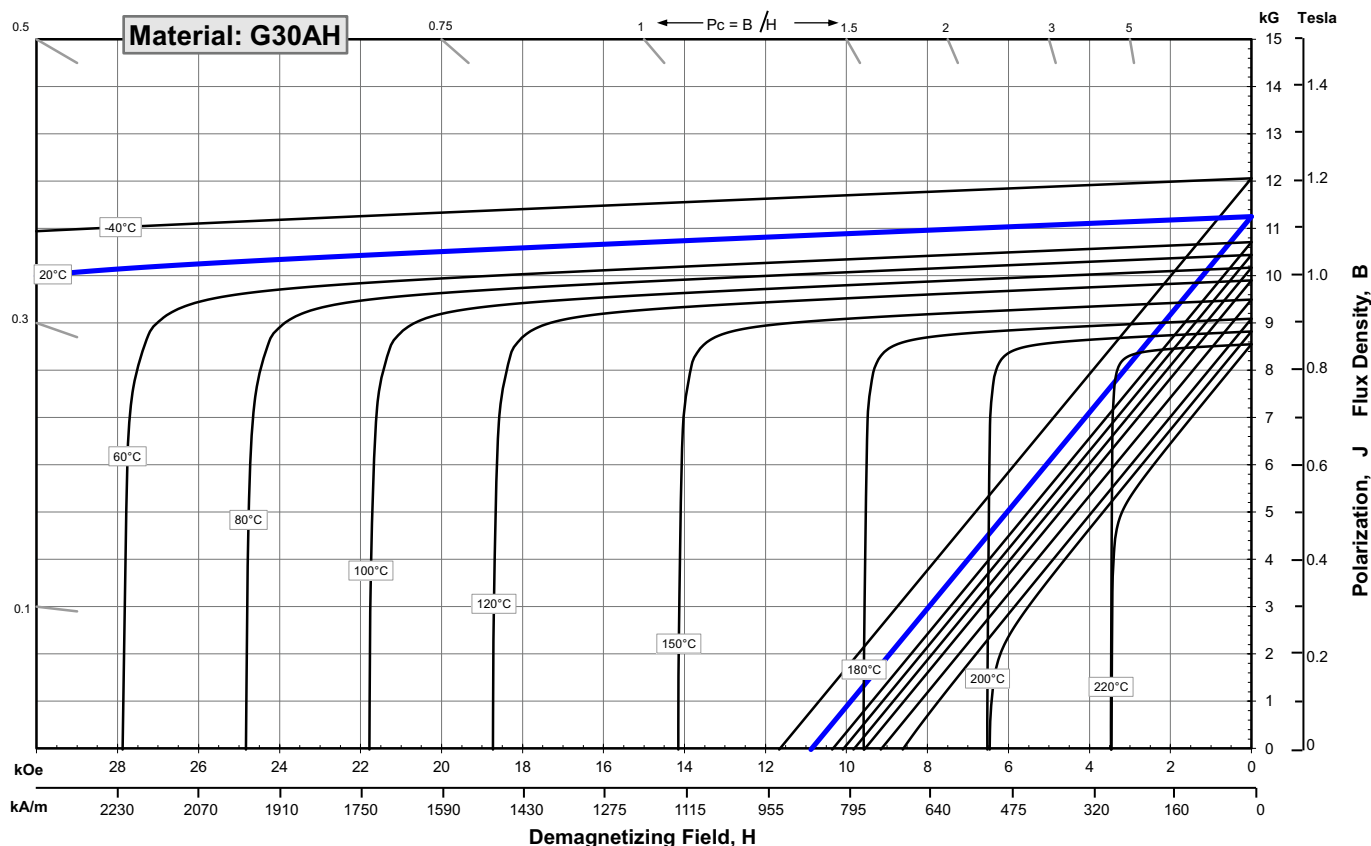
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	10,800	11,250	11,700
	mT	1080	1125	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	28	31	33
	kJ/m ³	223	243	263

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.45
Coefficient of Thermal Expansion ⁽²⁾			
	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity			
	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾			
	cal/g°C		0.11
Curie Temperature, T _c			
	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	nW·cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

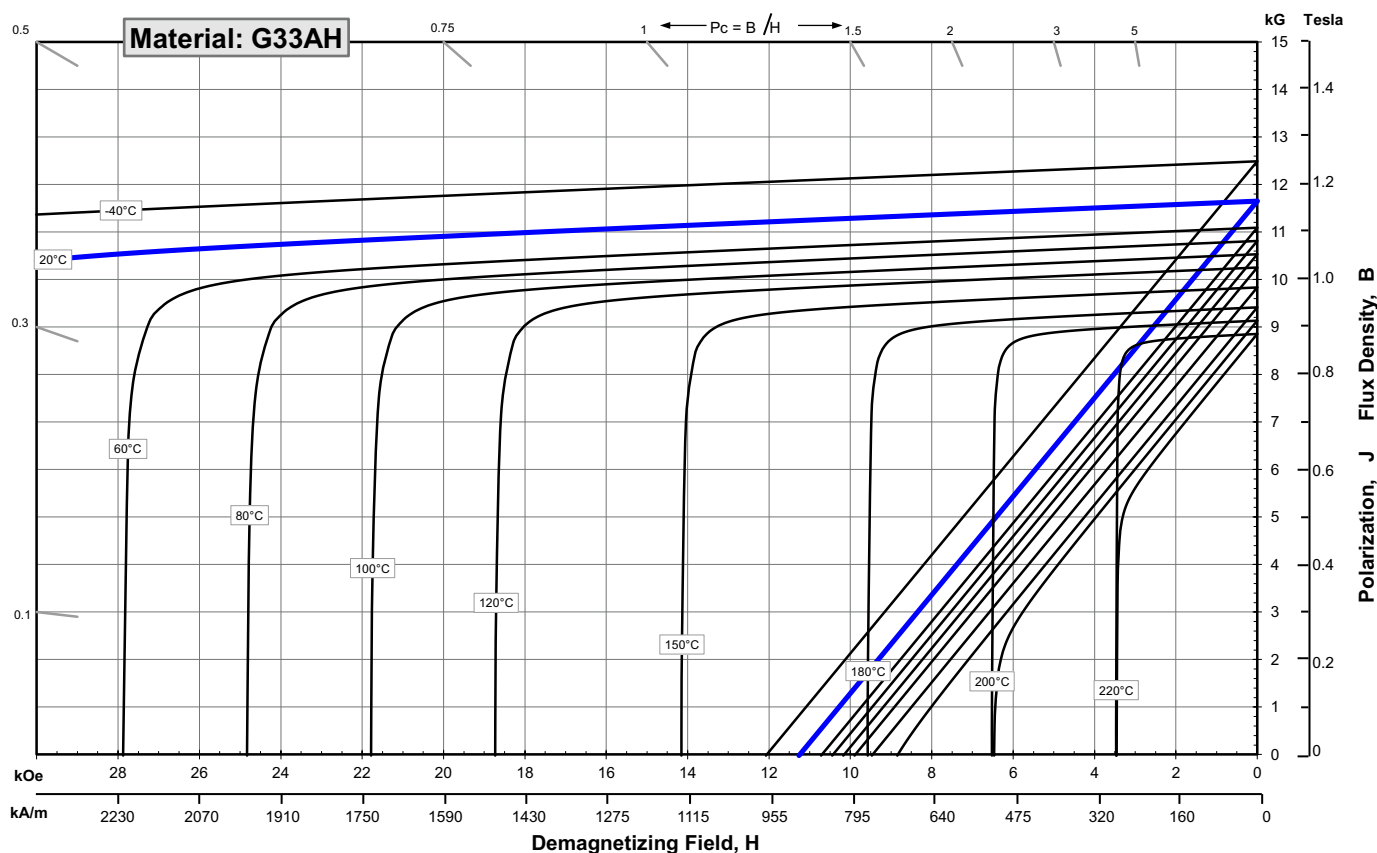
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,300	11,650	12,000
	mT	1130	1165	1200
H_{cB} , Coercivity	Oersteds	10,300	10,900	11,500
	kA/m	820	867	915
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	Thermal Properties		
		C //	C ^	
Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
	of Induction, α(Br)	%/°C	-0.12	
	of Coercivity, α(H _{cj})	%/°C	-0.45	
	Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
	Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11		
Curie Temperature, T _c	°C	310		
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

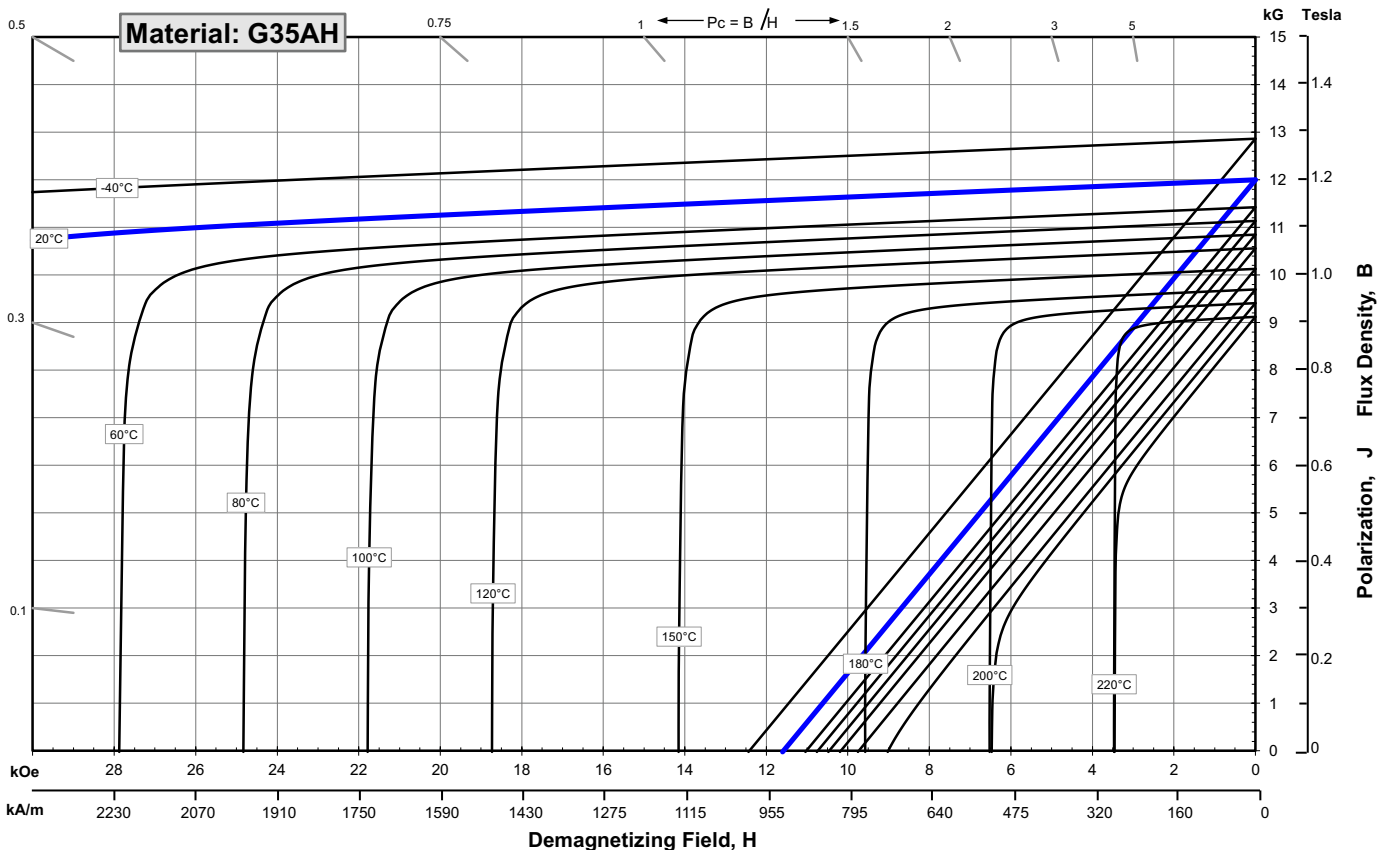
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	11,700	12,000
		mT	1170	1200	1230
H_{cB} , Coercivity		Oersteds	10,500	11,150	11,800
		kA/m	836	887	939
H_{cJ} , Intrinsic Coercivity		Oersteds	34,000		
		kA/m	2,706		
BH_{max} , Maximum Energy Product		MGOe	33	35	37
		kJ/m ³	263	279	295

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.12	
of Coercivity, α(H _{cj})		%/°C		-0.45	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		kcal/mhr°C	5.3	5.8	
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.6
	Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

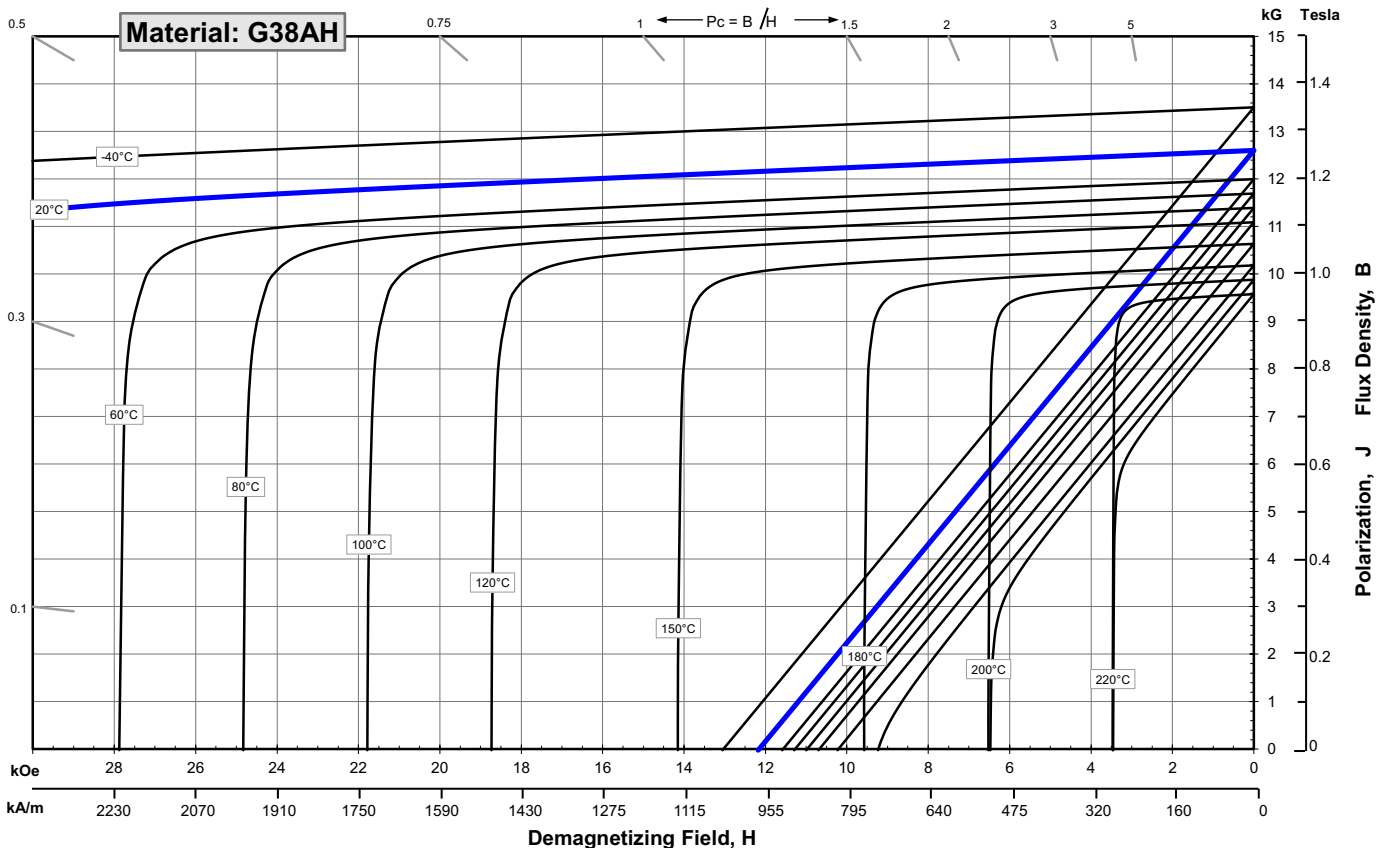
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	12,200	12,600
		mT	1220	1260	1300
H_{cB} , Coercivity		Oersteds	11,000	11,700	12,400
		kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity		Oersteds	34,000		
		kA/m	2,706		
BH_{max} , Maximum Energy Product		MGOe	36	39	41
		kJ/m ³	287	307	326

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.12	
of Coercivity, α(H _{cj})		%/°C		-0.45	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		kcal/mhr°C	5.3	5.8	
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11	
	Curie Temperature, T _c	°C		310	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.6
	Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW·cm			150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 °C
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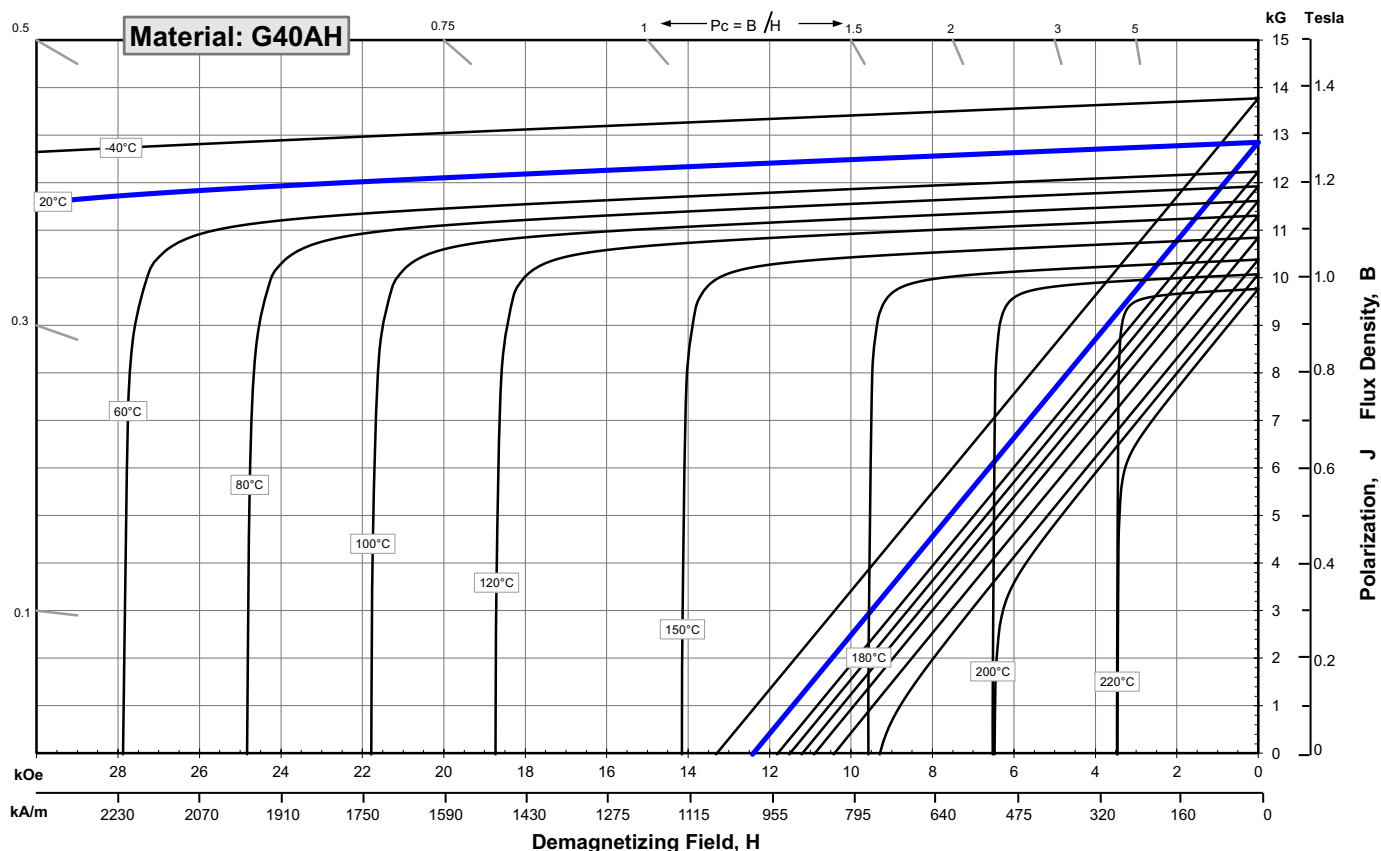
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,850	13,200
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,500	12,050	12,600
	kA/m	915	959	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	38	40	42
	kJ/m ³	302	318	334

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	-0.12
	of Coercivity, α(H _{cj})	%/°C	-0.45
	Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.6
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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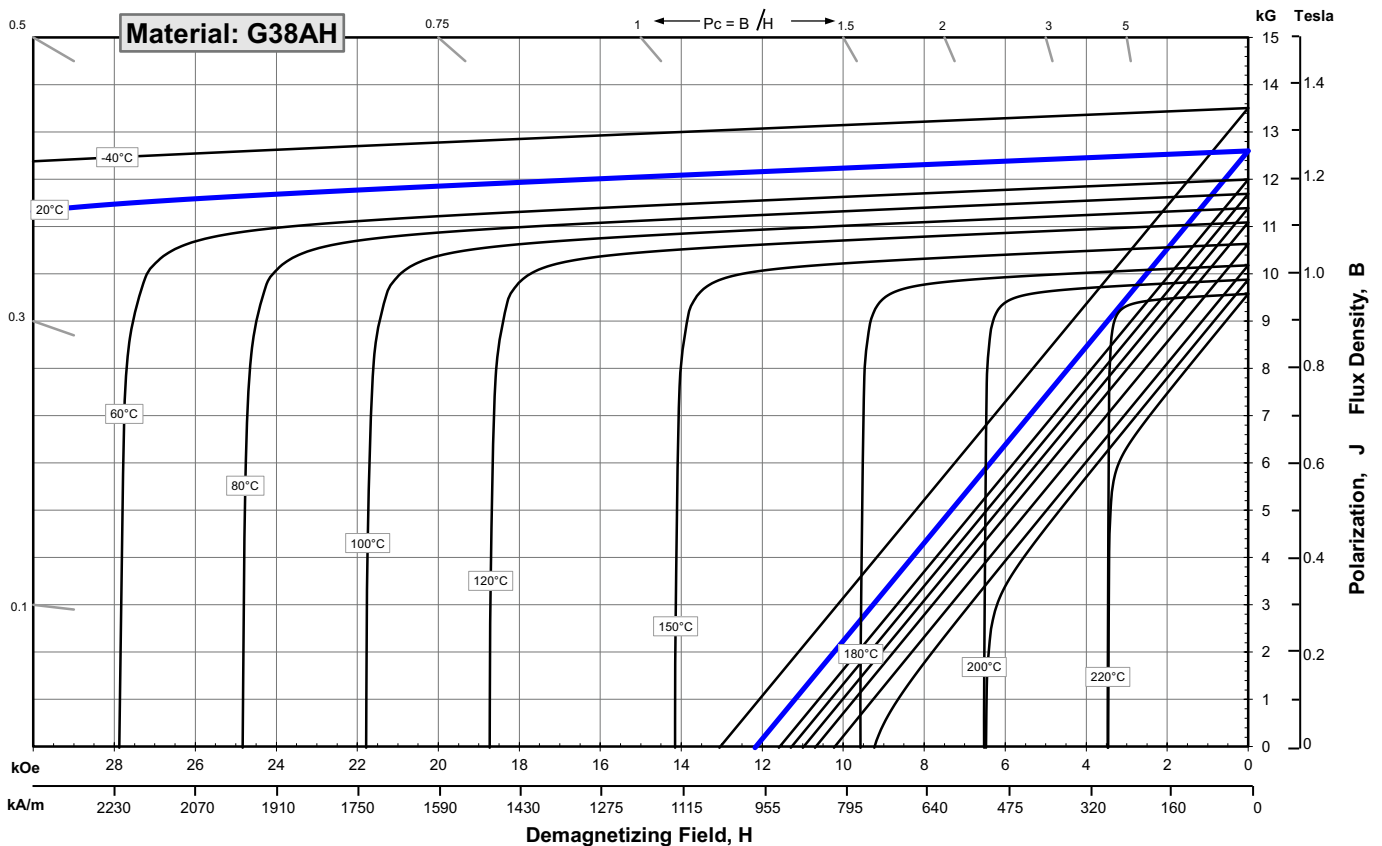
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction	Gauss	12,200	12,600	13,000
mT		1220	1260	1300	
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400	
	kA/m	876	931	987	
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000			
	kA/m	2,706			
BH_{max} , Maximum Energy Product	MGOe	36	39	41	
	kJ/m ³	287	307	326	

Thermal Properties	Characteristic	Units	C //	C ^
	Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	
of Coercivity, α(H _{cj})		%/°C		-0.45
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity		kcal/mhr°C	5.3	5.8
Other Properties	Specific Heat ⁽³⁾	cal/g°C		0.11
	Curie Temperature, T _c	°C		310
Other Properties	Flexural Strength	psi		41,300
		MPa		285
	Density	g/cm ³		7.6
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 220 °C
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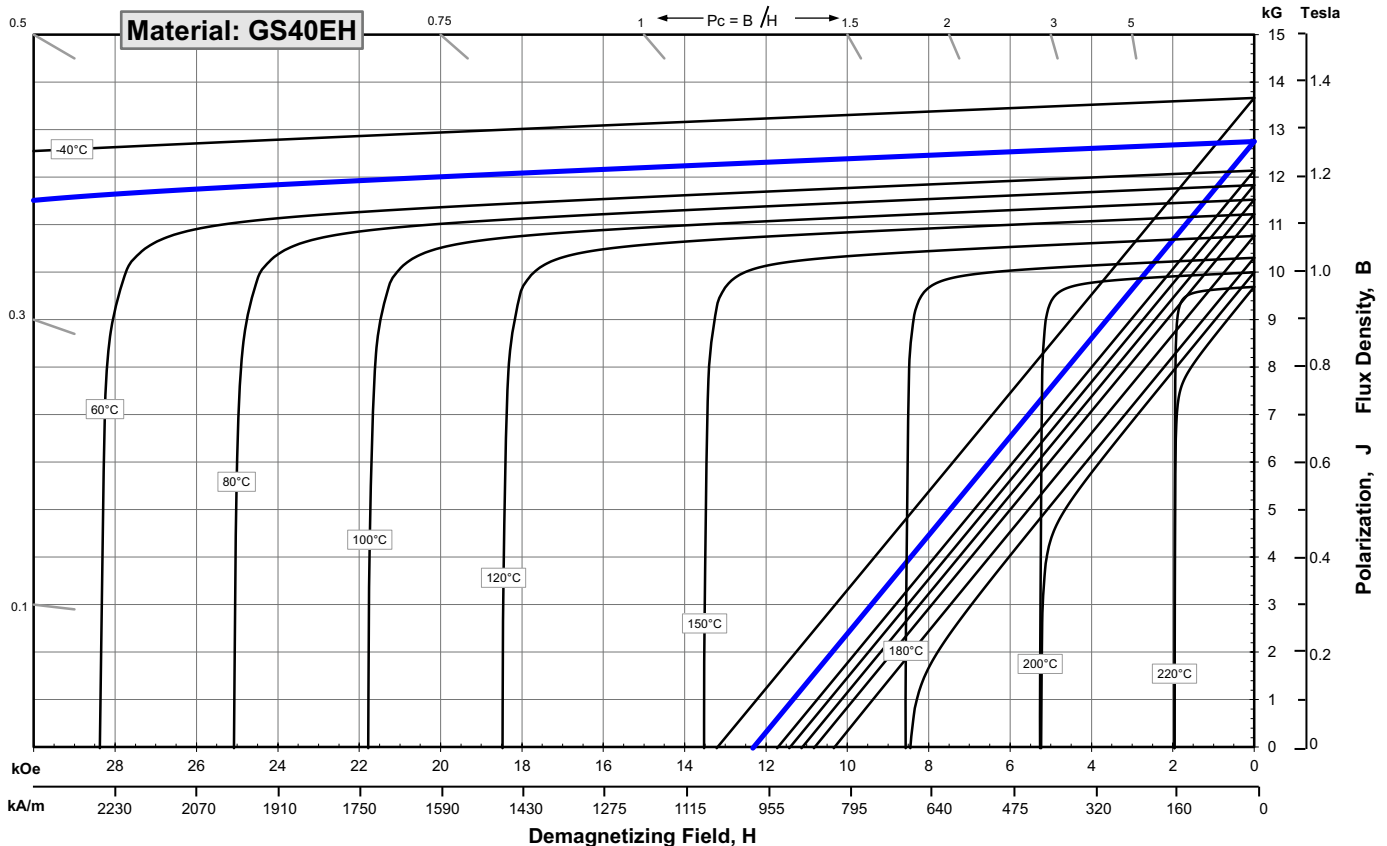
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,500	12,750	13,000
	mT	1250	1275	1300
H_{cB} , Coercivity	Oersteds	12,000	12,200	12,400
	kA/m	955	971	987
H_{cJ} , Intrinsic Coercivity	Oersteds	35,000		
	kA/m	2,786		
BH_{max} , Maximum Energy Product	MGOe	38	41	43
	kJ/m ³	302	322	342

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.12
of Coercivity, α(H _{cj})	%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mh°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C		0.11
Curie Temperature, T _c	°C		310
Other Properties			
Flexural Strength	psi		41,300
	MPa		285
Density	g/cm ³		7.6
Hardness, Vickers	Hv		620
Electrical Resistivity, r	mW • cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 200 °C
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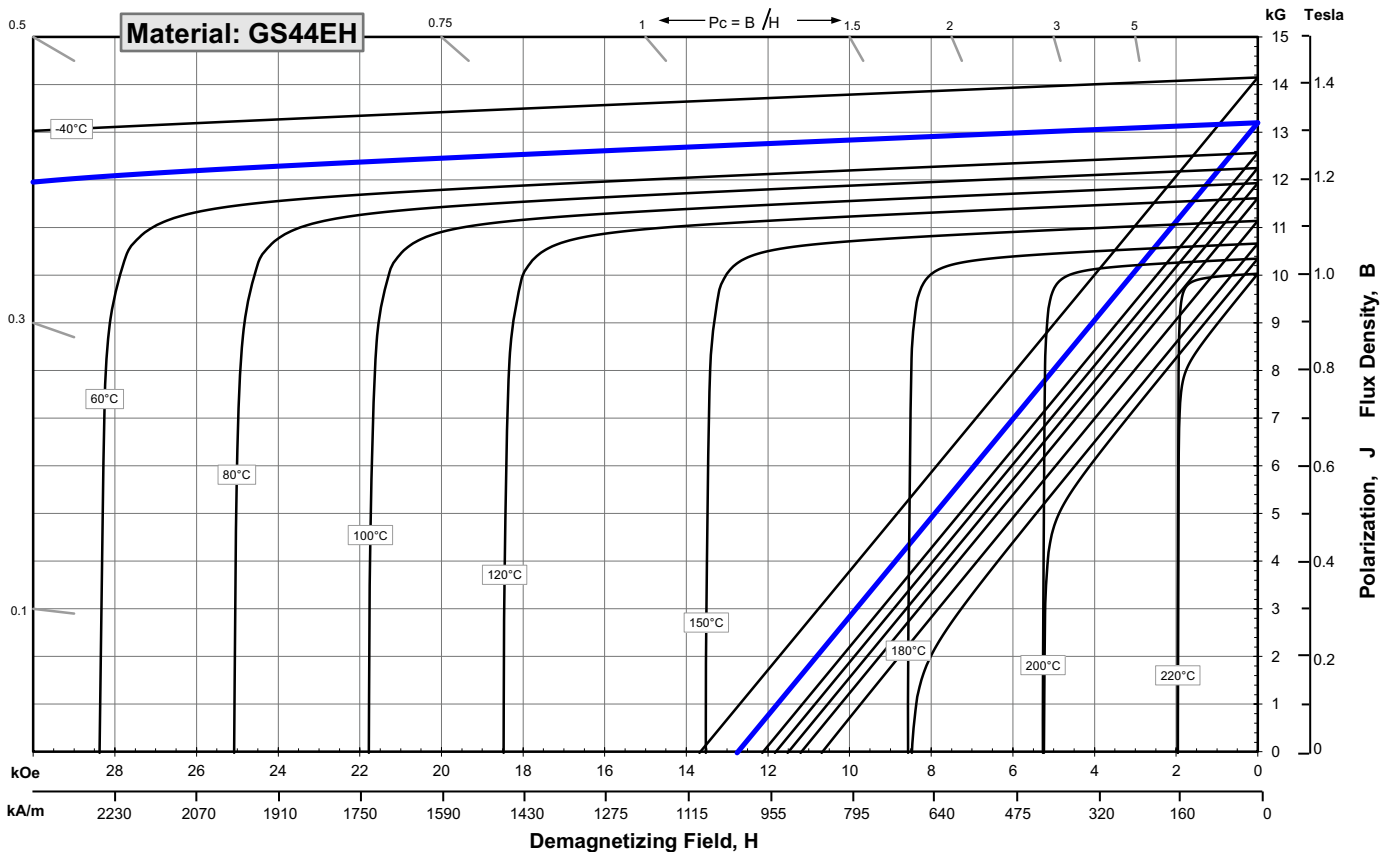
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	13,000	13,200	13,400
	mT	1300	1320	1340
H_{cB} , Coercivity	Oersteds	12,300	12,550	12,800
	kA/m	979	999	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	35,000		
	kA/m	2,786		
BH_{max} , Maximum Energy Product	MGOe	41	44	46
	kJ/m ³	326	346	366

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C x 10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
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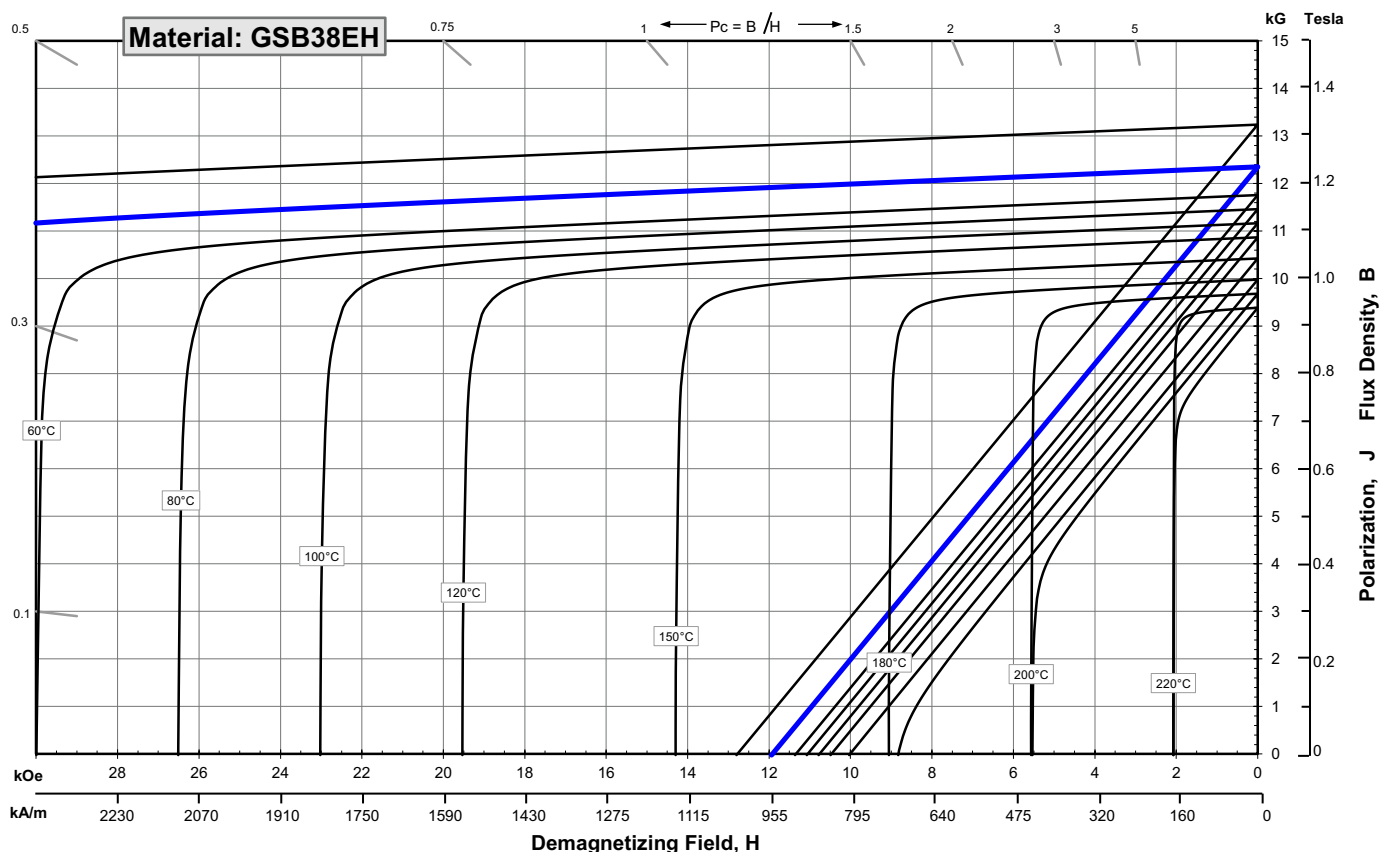
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	12,100	12,350	12,600
	mT	1210	1235	1260
H_{cB} , Coercivity	Oersteds	11,500	11,750	12,000
	kA/m	915	935	955
H_{cJ} , Intrinsic Coercivity	Oersteds	37,000		
	kA/m	2,945		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C // C ^	
		C //	C ^
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.12	
of Coercivity, α(H _{cj})	%/°C	-0.47	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾	cal/g°C	0.11	
Curie Temperature, T _c	°C	310	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.6	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 200 °C
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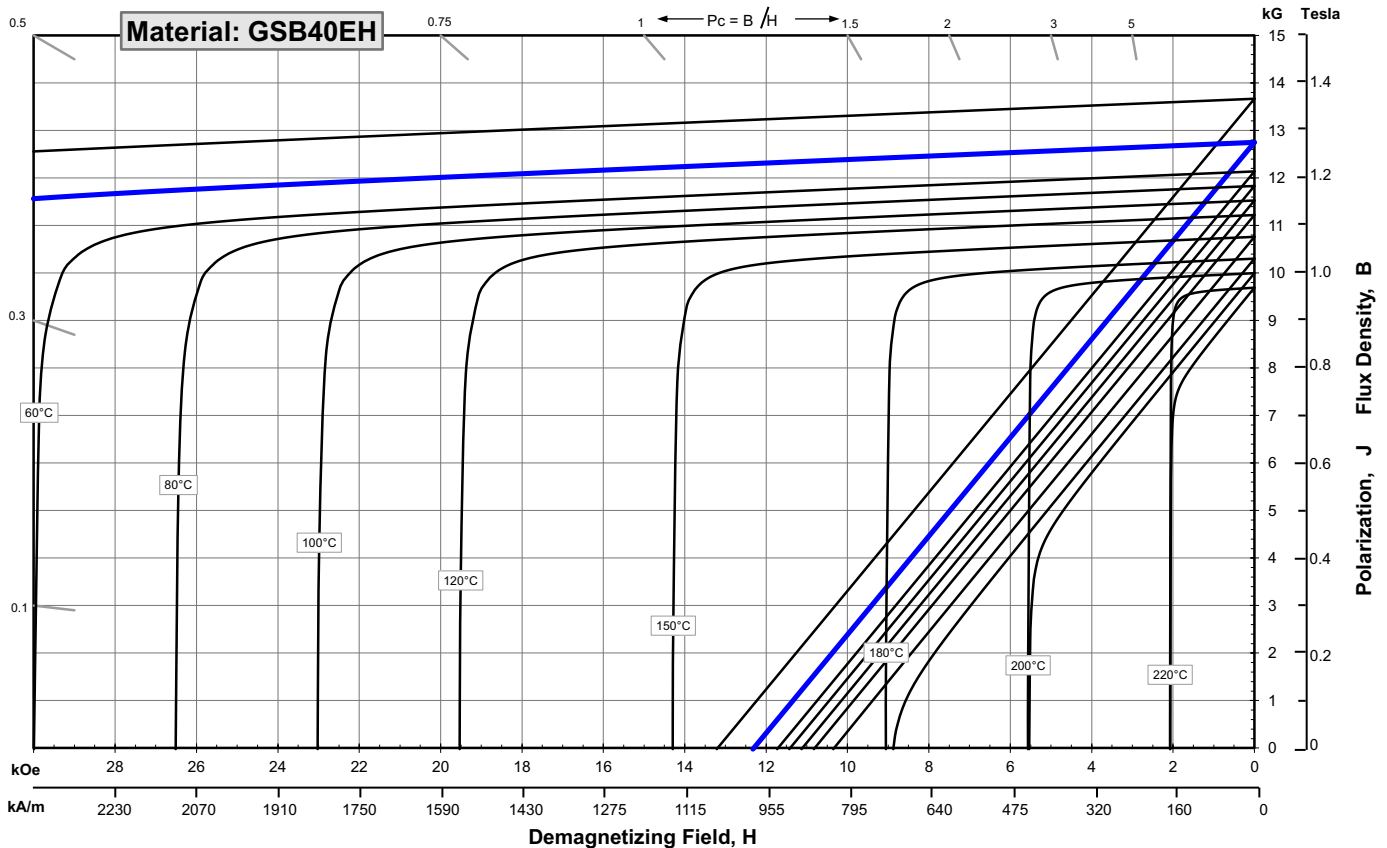
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Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	12,500	12,750
		mT	1250	1275	1300
H_{cB} , Coercivity		Oersteds	12,000	12,200	12,400
		kA/m	955	971	987
H_{cJ} , Intrinsic Coercivity		Oersteds	37,000		
		kA/m	2,945		
BH_{max} , Maximum Energy Product		MGOe	38	41	43
		kJ/m ³	302	324	345

Thermal Properties	Characteristic	Units	C //	C ^
	Reversible Temperature Coefficients ⁽¹⁾	of Induction, α(Br)	%/°C	
of Coercivity, α(H _{cj})		%/°C		-0.47
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity		kcal/mhr°C	5.3	5.8
Specific Heat ⁽³⁾		cal/g°C		0.11
Other Properties	Curie Temperature, T _c	°C		310
	Flexural Strength		psi	41,300
			MPa	
	Density	g/cm ³		7.6
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW•cm		150 // 130 ⊥

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Demagnetization curves show nominal Br and minimum H_{cj}. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

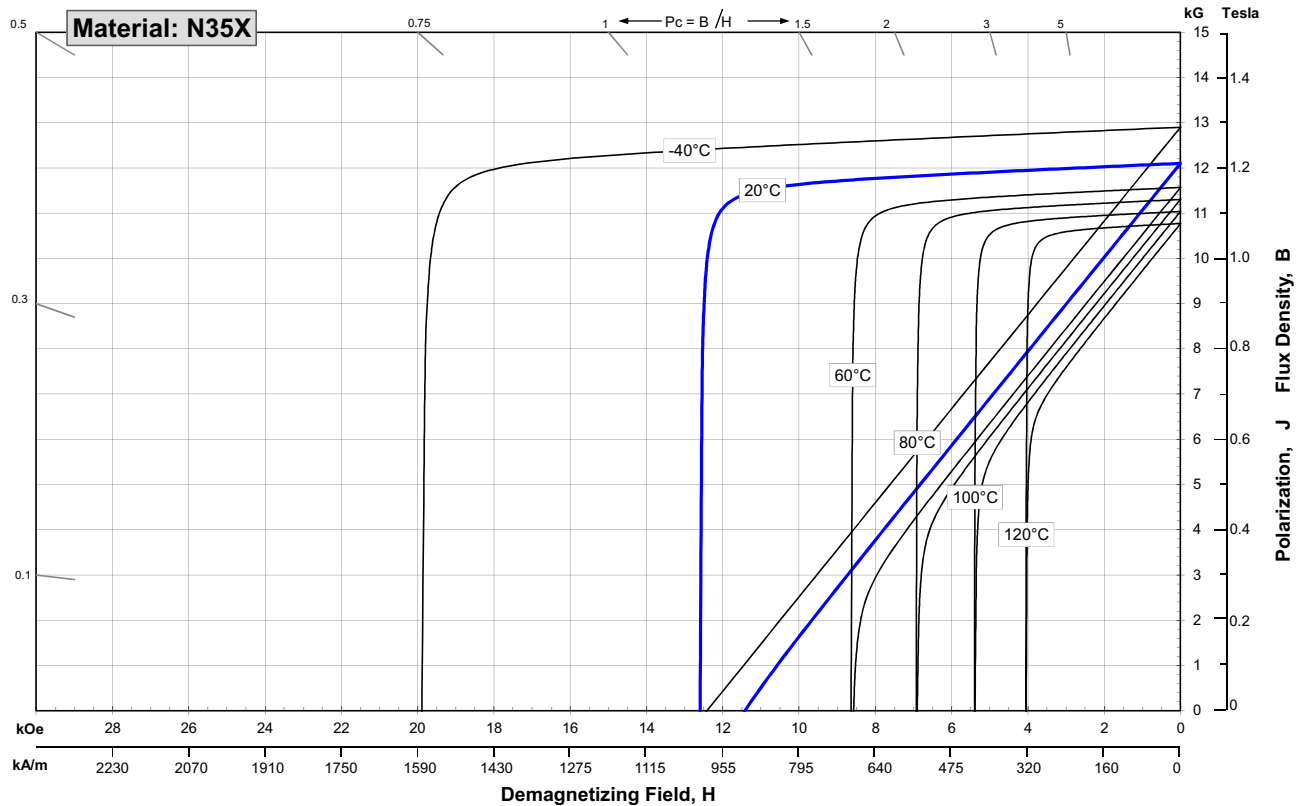
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1210	1250
H_{cB} , Coercivity	Oersteds	10,800	11,400	12,000
	kA/m	860	907	955
H_{cJ} , Intrinsic Coercivity	Oersteds	12,000		
	kA/m	955		
BH_{max} , Maximum Energy Product	MGOe	33	36	38
	kJ/m ³	263	283	302

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.110
of Coercivity, α(H _{cj})	%/°C		-0.750
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		330
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 80 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

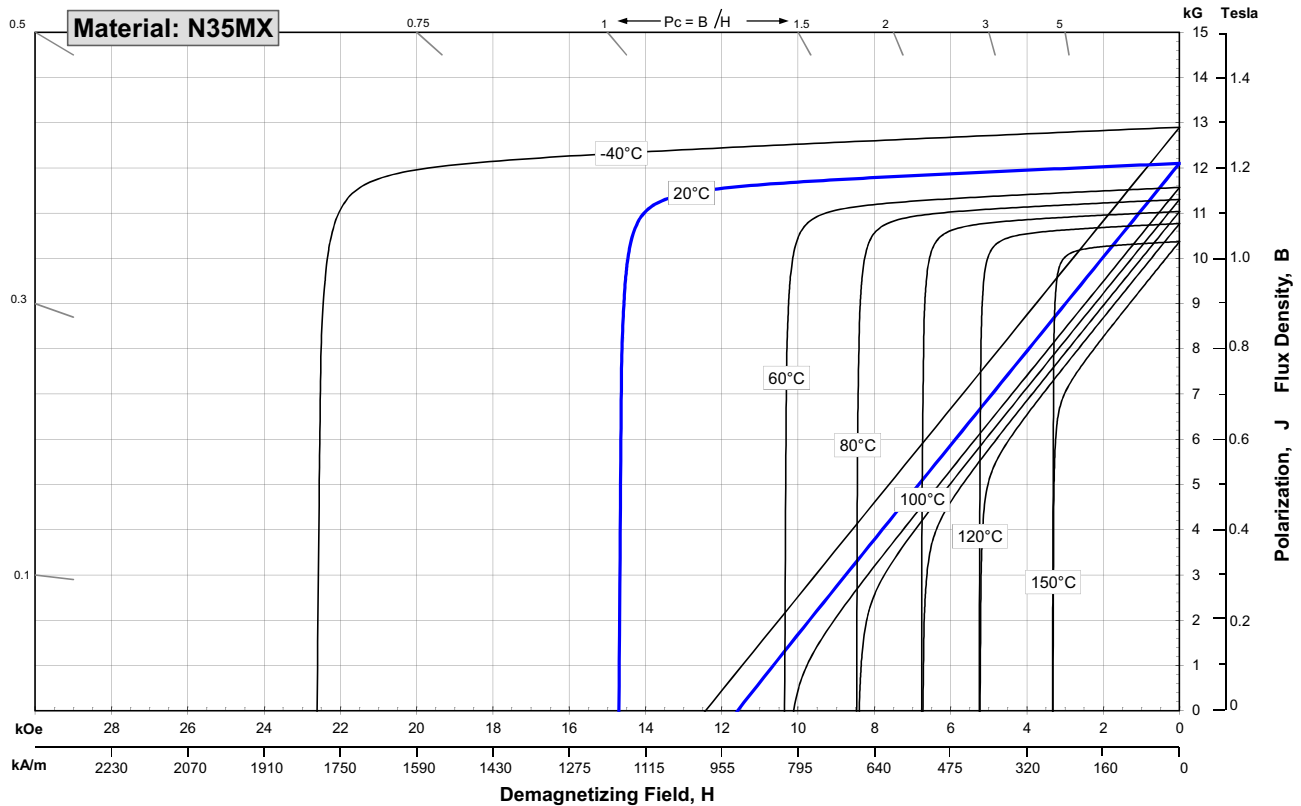
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1210	1250
H_{cB} , Coercivity	Oersteds	10,900	11,450	12,000
	kA/m	868	911	955
H_{cJ} , Intrinsic Coercivity	Oersteds	14,000		
	kA/m	1,114		
BH_{max} , Maximum Energy Product	MGOe	33	36	38
	kJ/m ³	263	283	302

Characteristic	Units	C // C ^		
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C		-0.110	
of Coercivity, α(H _{cj})	%/°C		-0.675	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		330	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 100 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

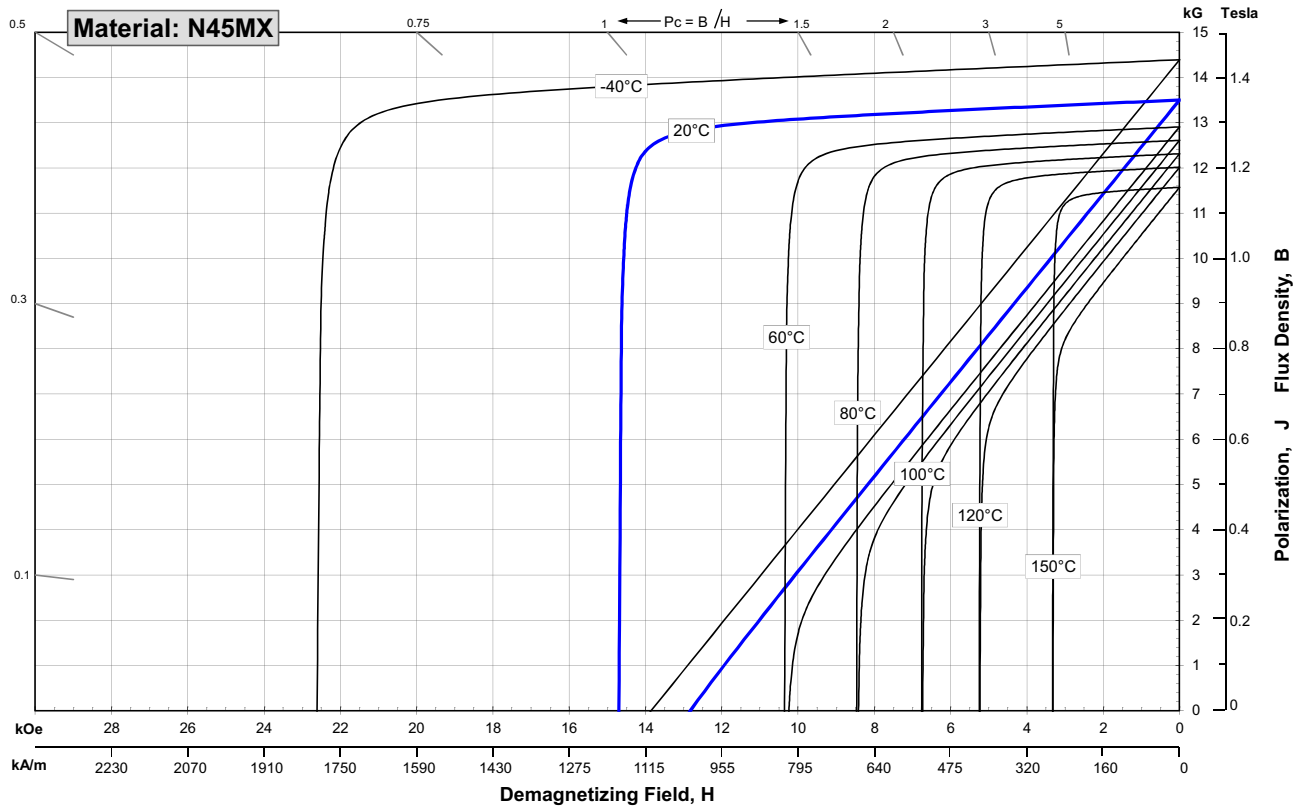
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	13,200
	mT	1320	1350	1380
H_{cB} , Coercivity	Oersteds	12,200	12,700	13,200
	kA/m	971	1011	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	14,000		
	kA/m	1,114		
BH_{max} , Maximum Energy Product	MGOe	42	45	47
	kJ/m ³	334	354	374

Characteristic	Units	C // C ^		
		Reversible Temperature Coefficients ⁽¹⁾		
of Induction, α(Br)	%/°C		-0.110	
of Coercivity, α(H _{cj})	%/°C		-0.675	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		330	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 100 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

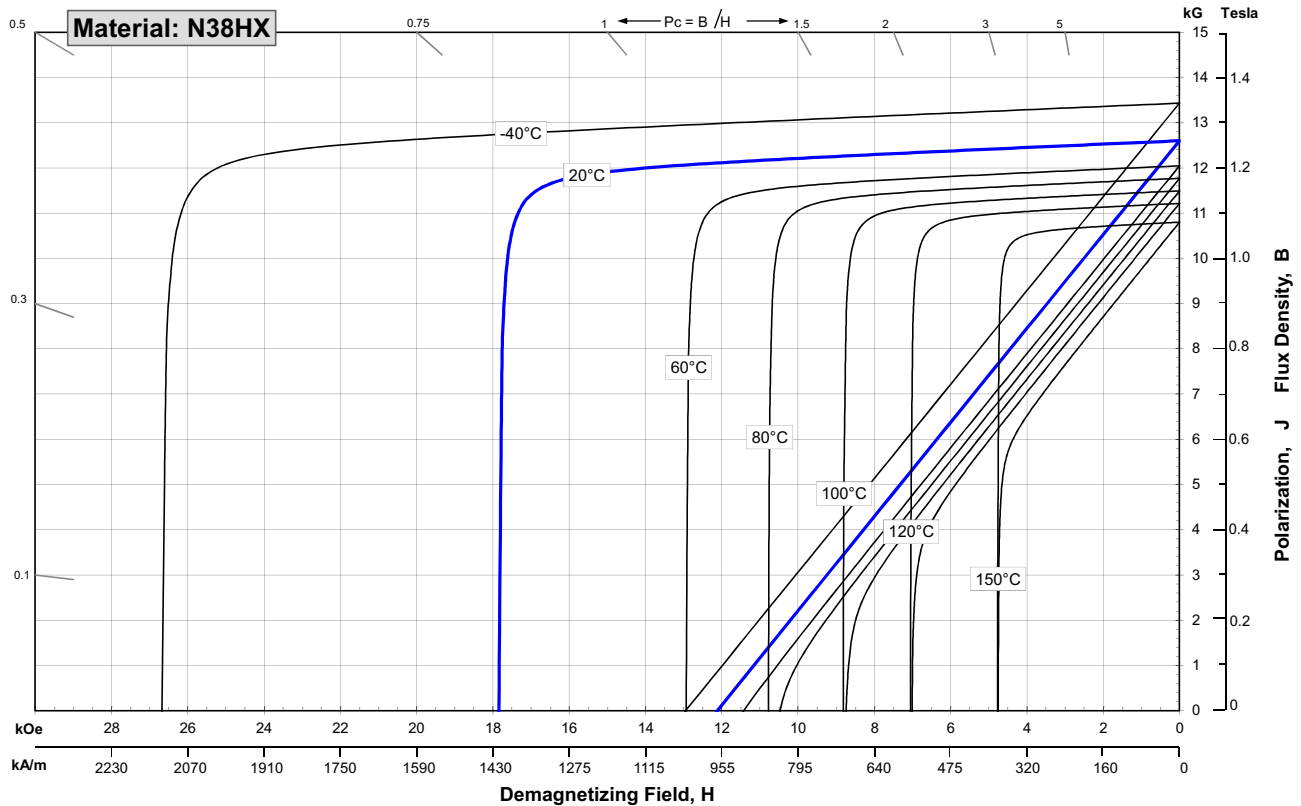
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,200
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,300	11,850	12,400
	kA/m	899	943	987
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.110
of Coercivity, α(H _{cj})	%/°C		-0.605
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		330
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

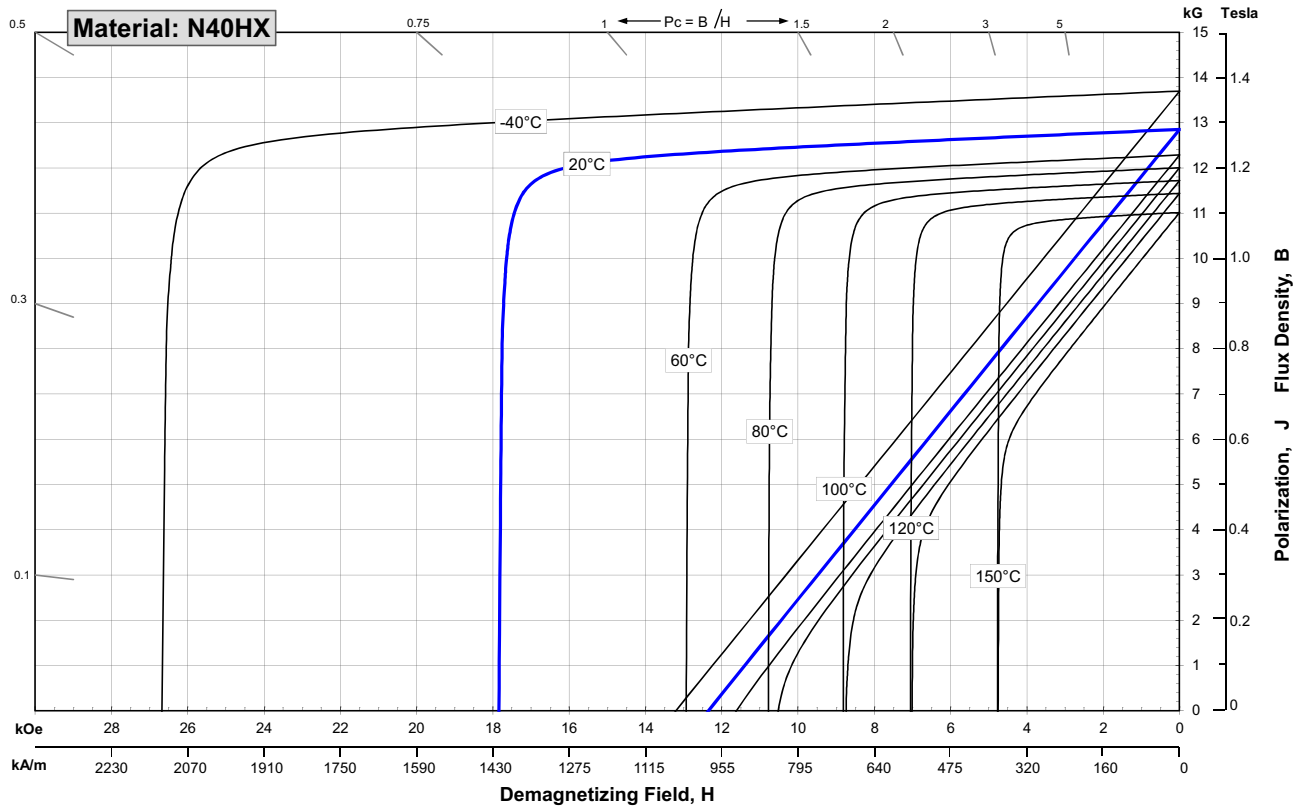
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,500
	mT	1250	1285	1320
H_{cB} , Coercivity	Oersteds	11,600	12,100	12,600
	kA/m	923	963	1003
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	38	41	43
	kJ/m ³	302	322	342

Characteristic	Units	C // C ^	
Thermal Properties			
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.110	
of Coercivity, α(H _{cj})	%/°C	-0.605	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	330	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

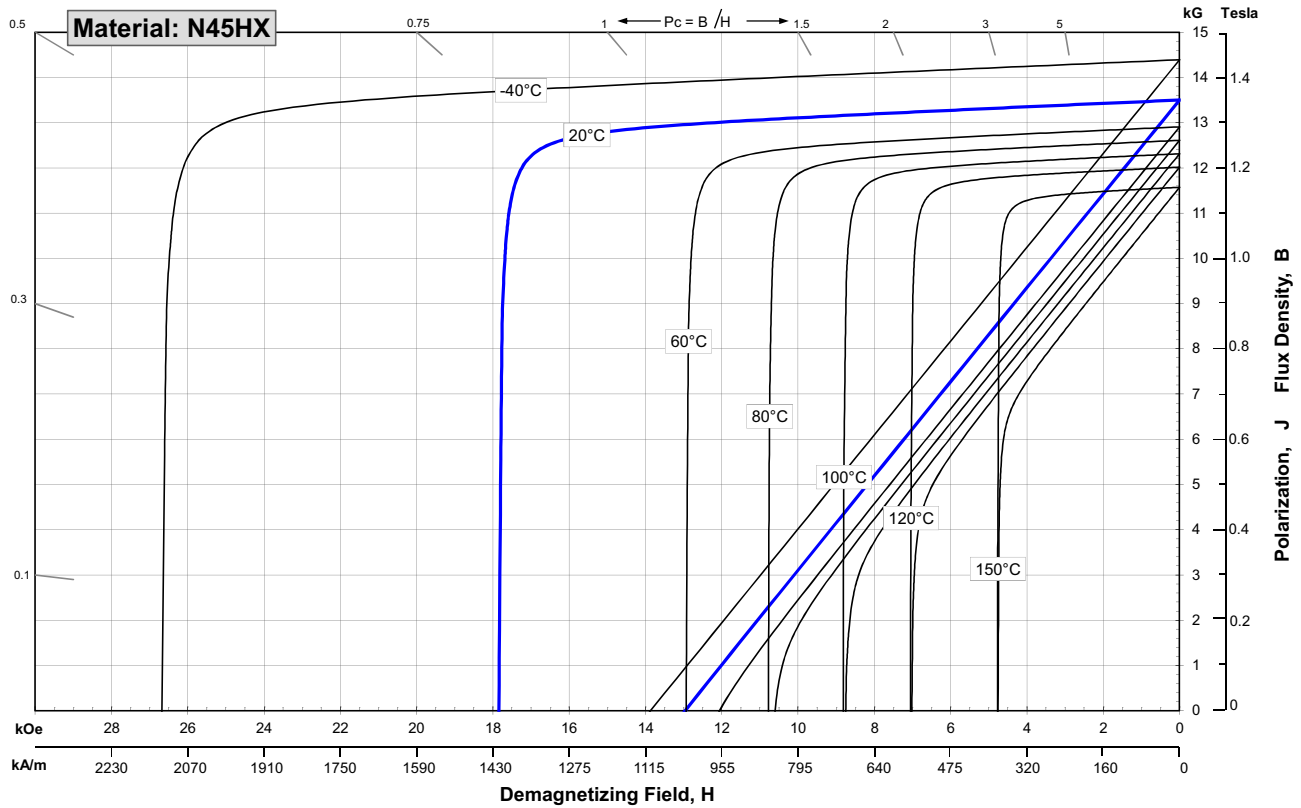
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	13,200
	mT	1320	1350	1380
H_{cB} , Coercivity	Oersteds	12,200	12,700	13,200
	kA/m	971	1011	1050
H_{cJ} , Intrinsic Coercivity	Oersteds	17,000		
	kA/m	1,353		
BH_{max} , Maximum Energy Product	MGOe	42	45	47
	kJ/m ³	334	354	374

Characteristic	Units	C // C ^	
		Reversible Temperature Coefficients ⁽¹⁾	
of Induction, α(Br)	%/°C		-0.110
of Coercivity, α(H _{cj})	%/°C		-0.605
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		330
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 120 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

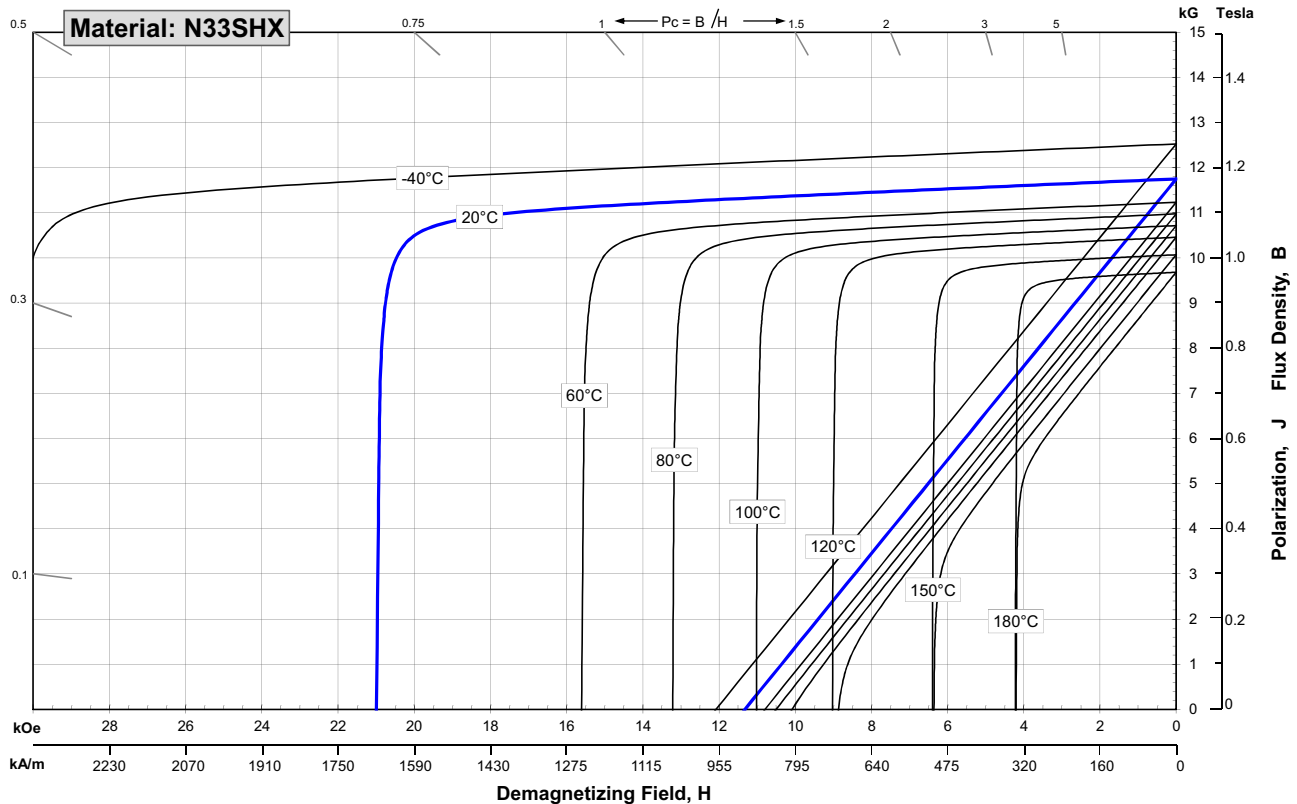
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,300	11,750	12,200
	mT	1130	1175	1220
H_{cB} , Coercivity	Oersteds	10,600	11,150	11,700
	kA/m	844	887	931
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.110	
of Coercivity, α(H _{cj})	%/°C	-0.535	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	330	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

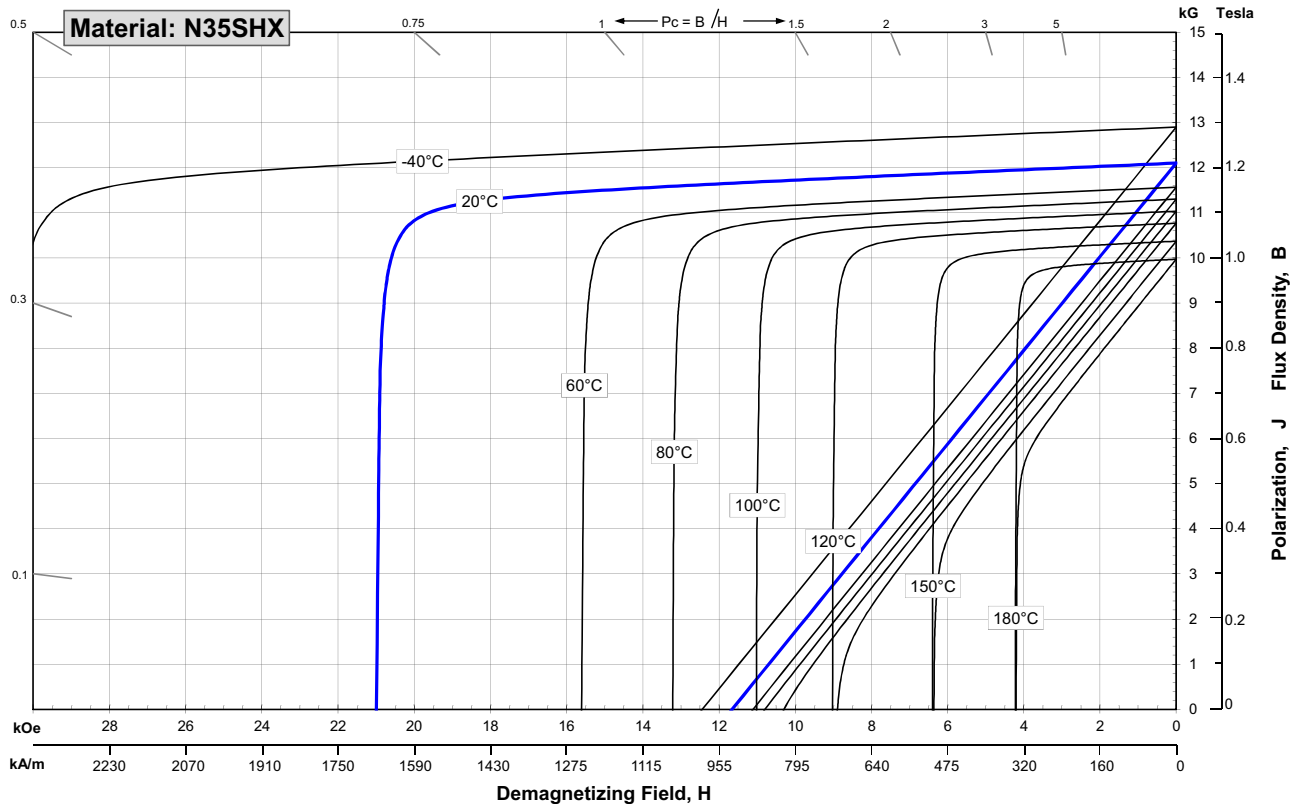
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1210	1250
H_{cB} , Coercivity	Oersteds	11,000	11,500	12,000
	kA/m	876	915	955
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	33	36	38
	kJ/m ³	263	283	302

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.110
of Coercivity, α(H _{cj})	%/°C		-0.535
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		330
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

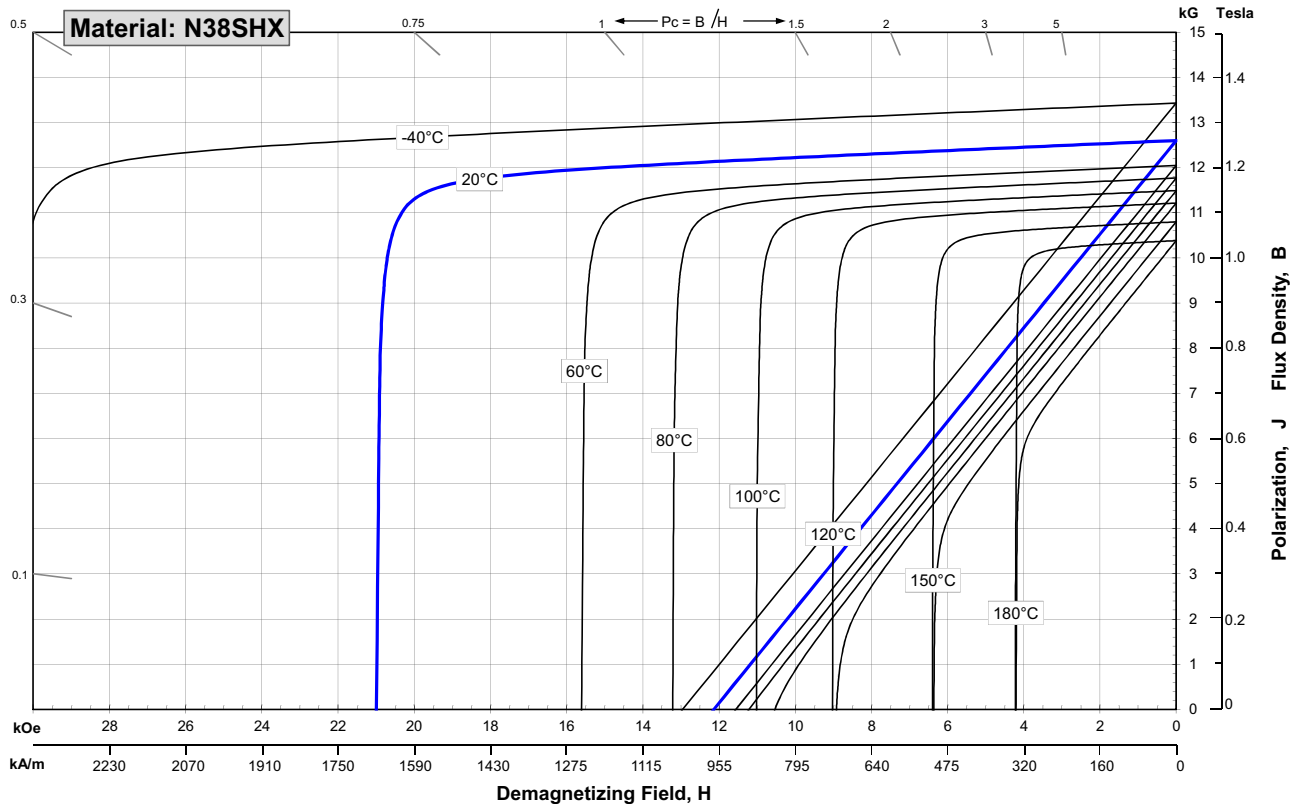
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,200
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,400	11,900	12,400
	kA/m	907	947	987
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.110
of Coercivity, α(H _{cj})	%/°C			-0.535
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			330
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r	mW • cm		

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

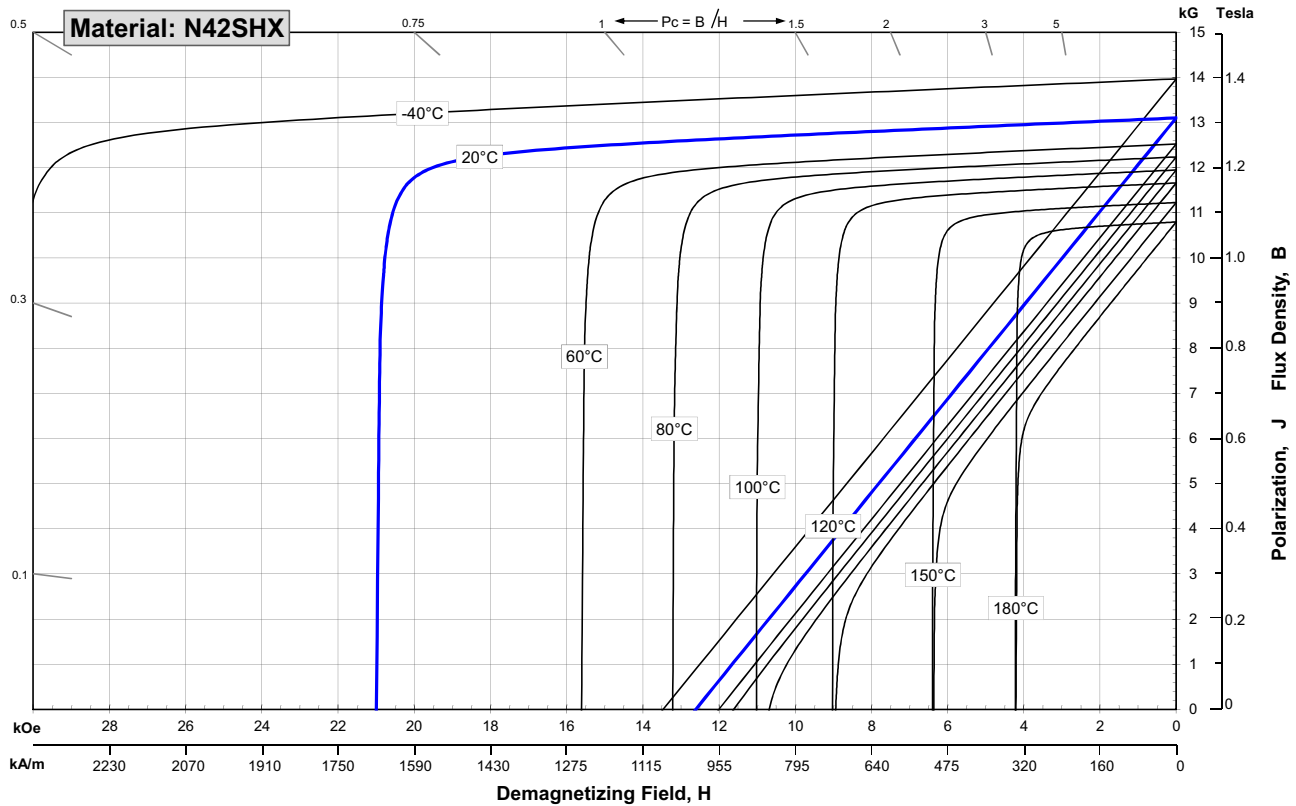
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,800
	mT	1280	1310	1340
H_{cB} , Coercivity	Oersteds	12,000	12,400	12,800
	kA/m	955	987	1019
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	39	42	44
	kJ/m ³	310	330	350

Characteristic	Units	C // C ^		
		Reversible Temperature Coefficients ⁽¹⁾		
of Induction, α(Br)	%/°C		-0.110	
of Coercivity, α(H _{cj})	%/°C		-0.535	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		330	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

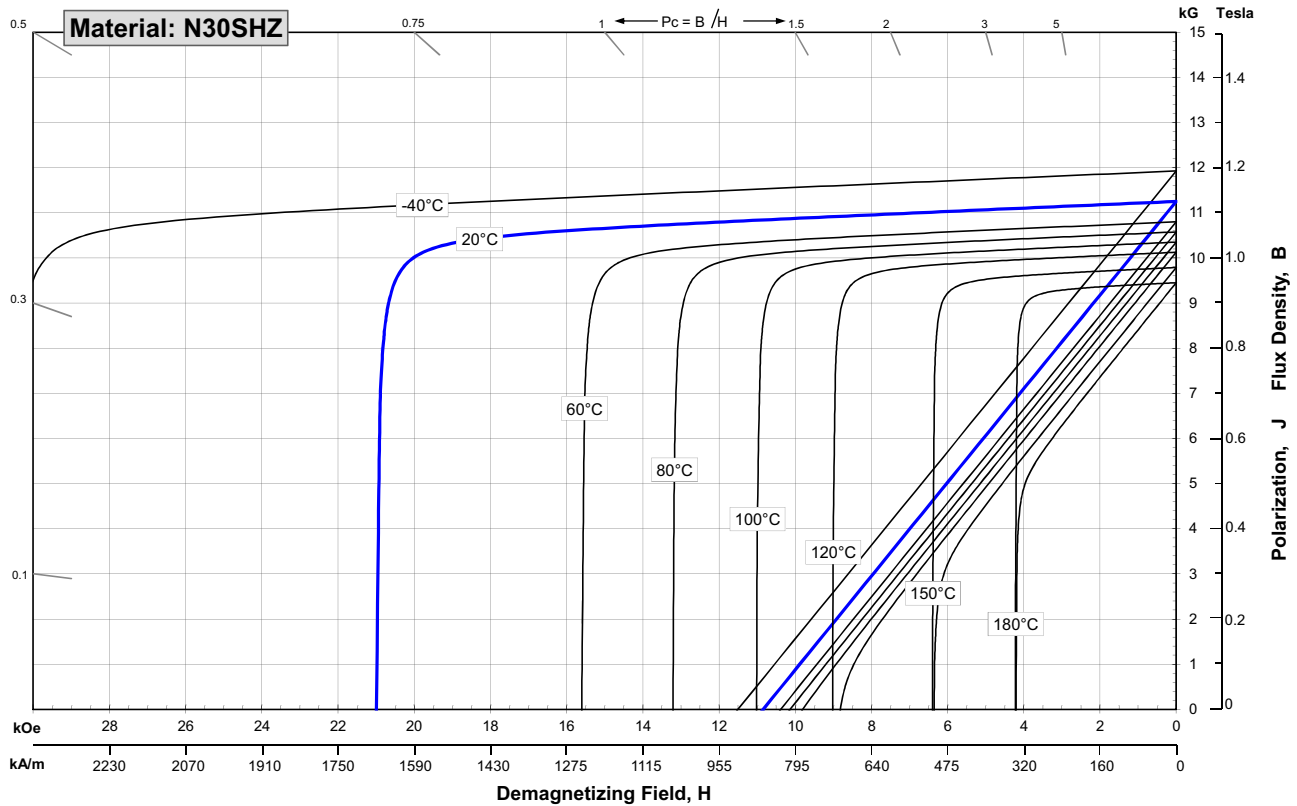
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	10,800
	mT	1080	1125	1170
H_{CB} , Coercivity	Oersteds	10,100	10,650	11,200
	kA/m	804	848	891
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BHmax , Maximum Energy Product	MGOe	28	31	33
	kJ/m ³	223	243	263

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.100
of Coercivity, α(H _{cj})	%/°C		-0.535
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		350
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

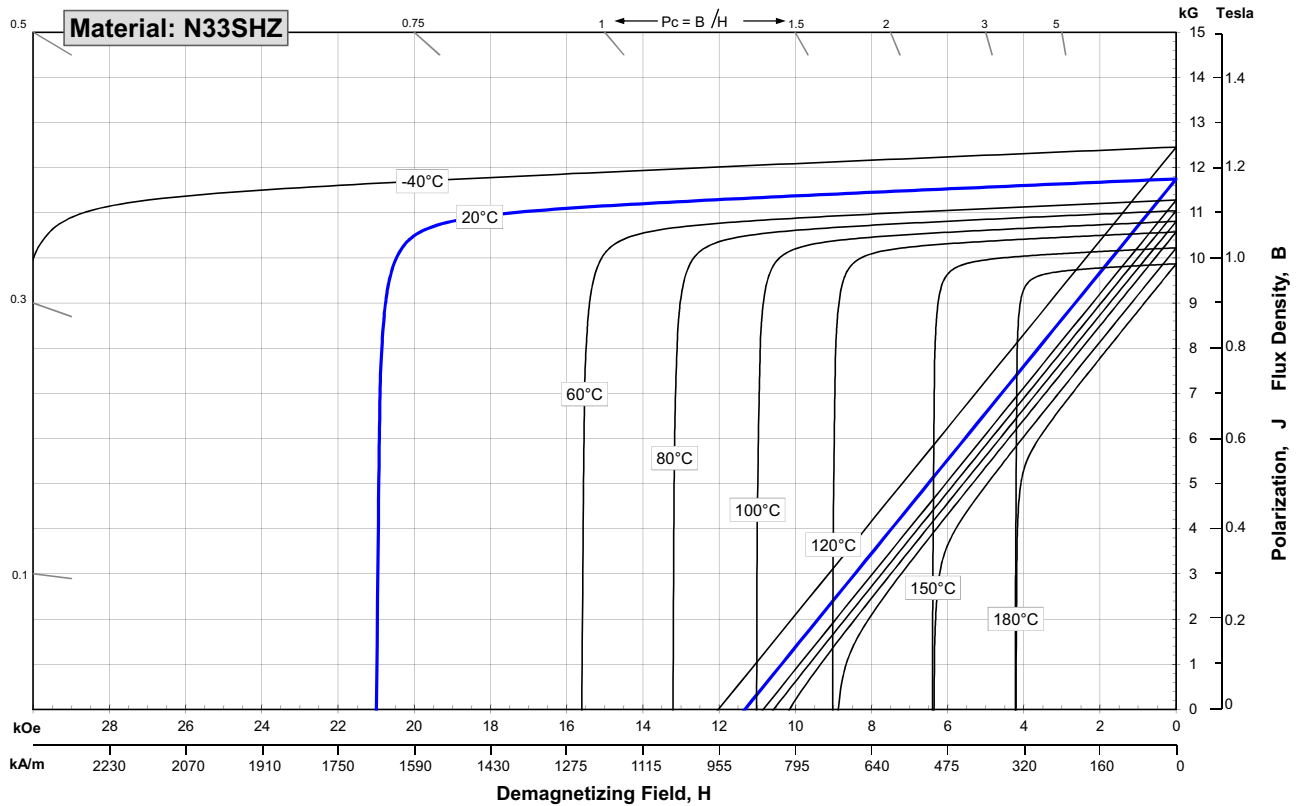
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,300	11,750	12,200
	mT	1130	1175	1220
H_{cB} , Coercivity	Oersteds	10,600	11,150	11,700
	kA/m	844	887	931
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.100	
of Coercivity, α(H _{cj})	%/°C	-0.535	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m · K)	7.6	
Specific Heat ⁽³⁾	J / (kg · K)	460	
Curie Temperature, T _c	°C	350	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW · cm	180	

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

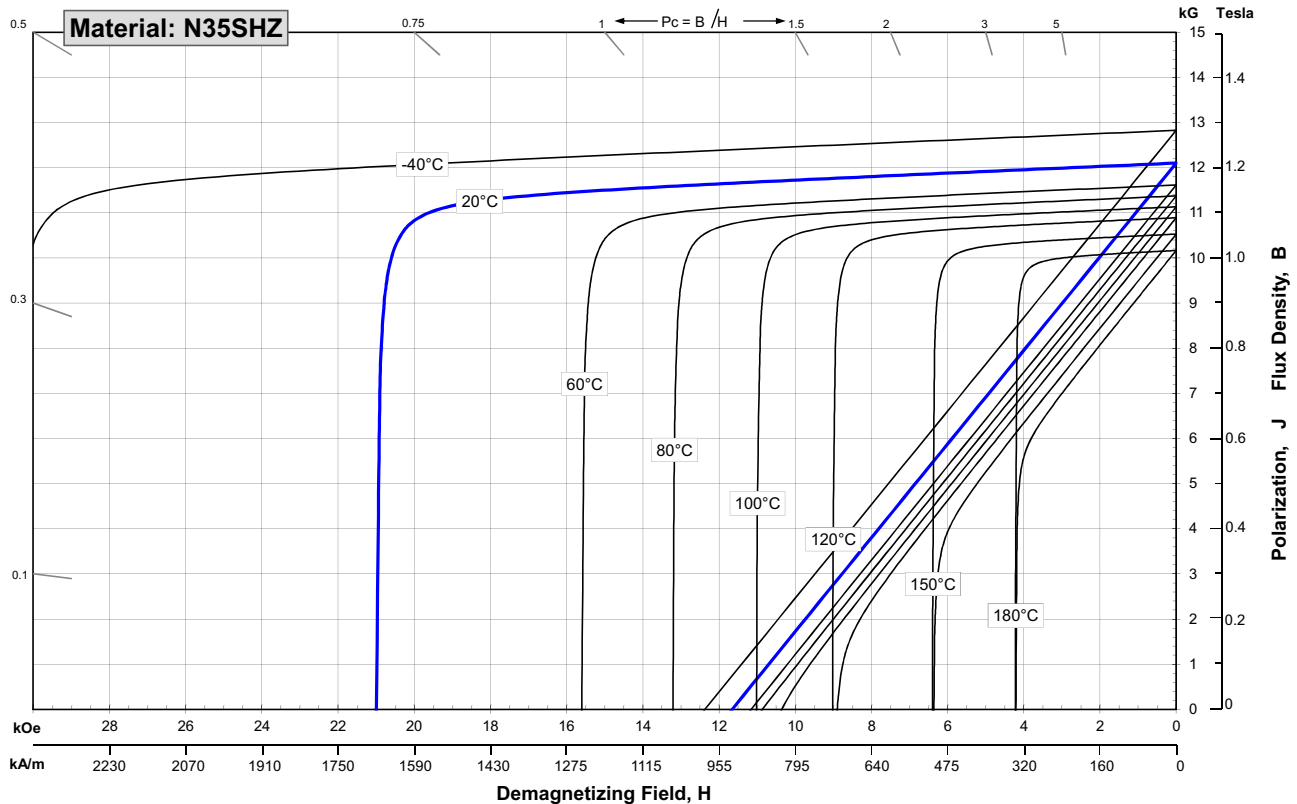
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	11,700
	mT	1170	1210	1250
H_{cB} , Coercivity	Oersteds	11,000	11,500	12,000
	kA/m	876	915	955
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	33	36	38
	kJ/m ³	263	283	302

Characteristic	Units	C // C ^	
		Reversible Temperature Coefficients ⁽¹⁾	
of Induction, α(Br)	%/°C		-0.100
of Coercivity, α(H _{cJ})	%/°C		-0.535
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	350	
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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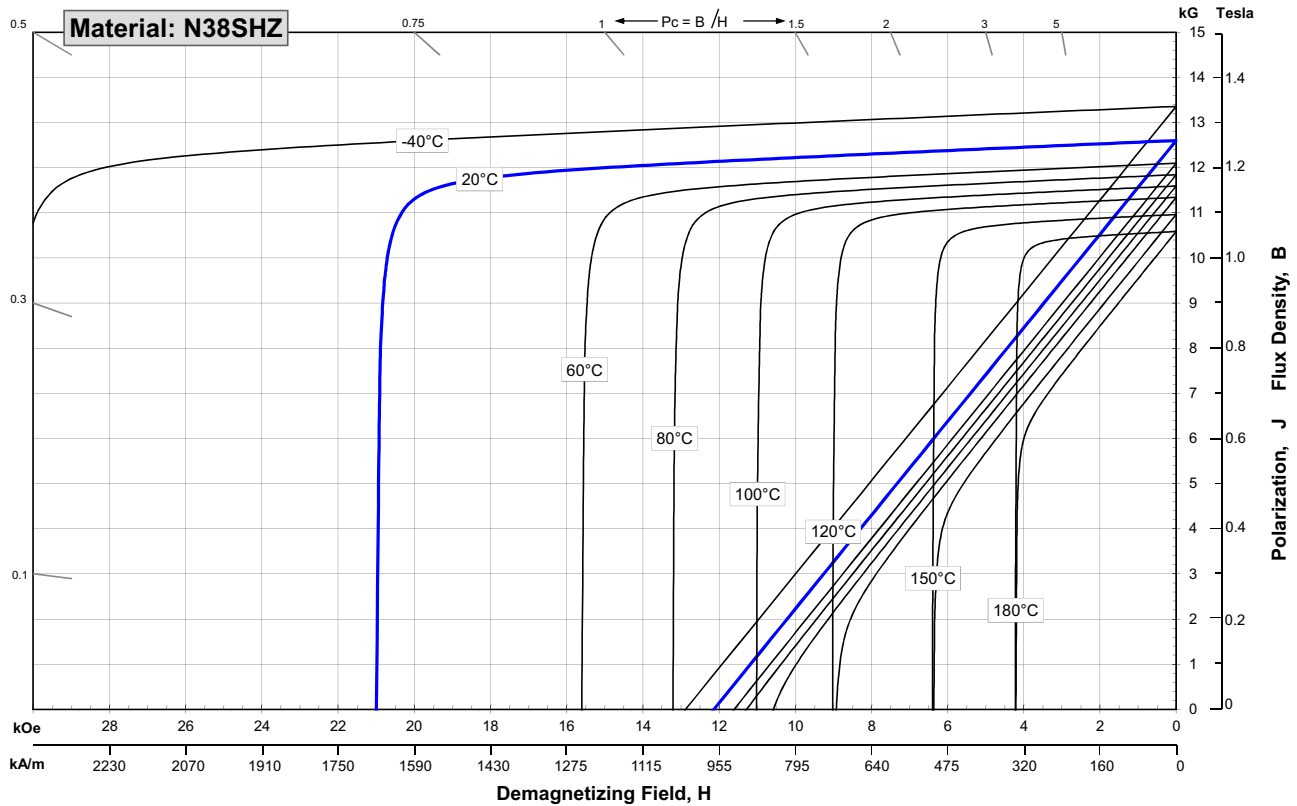
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,200
	mT	1220	1260	1300
H_{CB} , Coercivity	Oersteds	11,400	11,900	12,400
	kA/m	907	947	987
H_{cJ} , Intrinsic Coercivity	Oersteds	20,000		
	kA/m	1,592		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.100
of Coercivity, α(H _{cj})	%/°C			-0.535
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			350
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW • cm

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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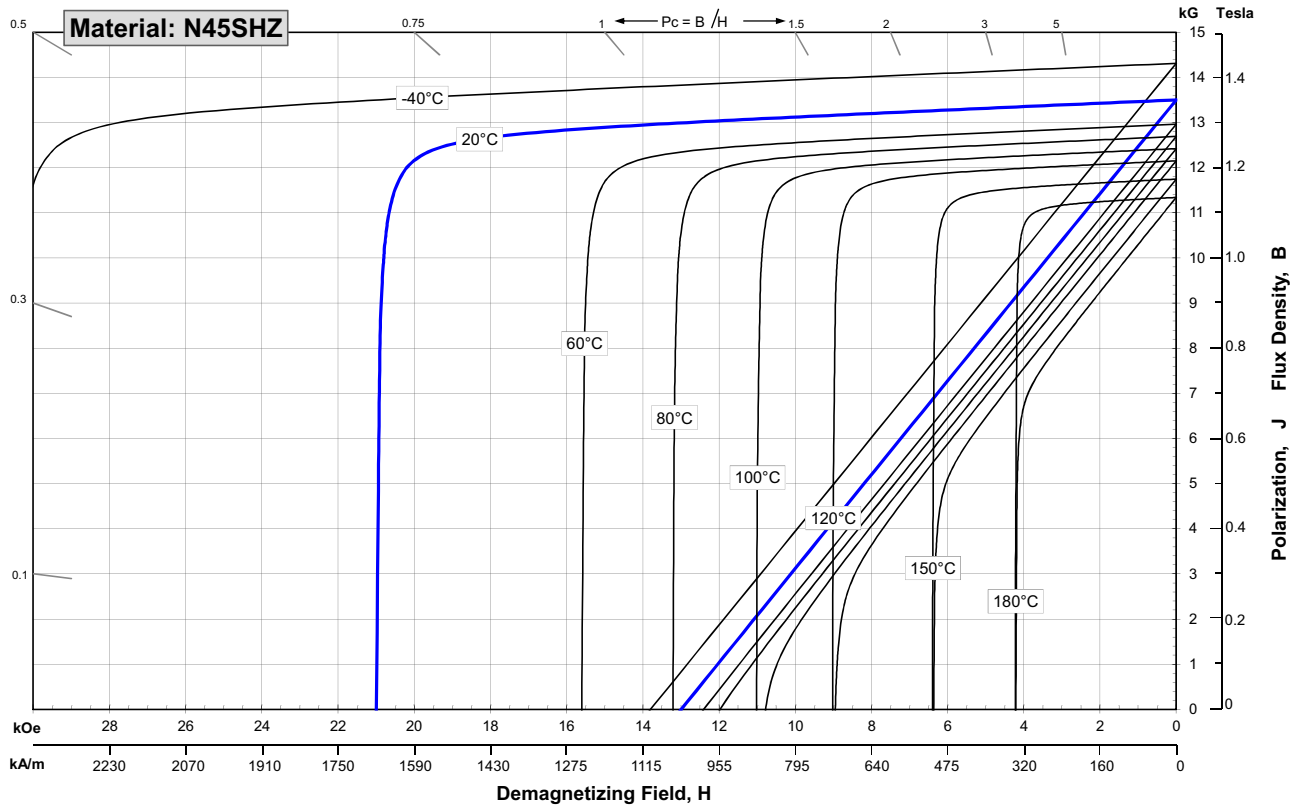
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction		Gauss	13,200	13,500
		mT	1320	1350	1380
H_{cB} , Coercivity		Oersteds	12,300	12,750	13,200
		kA/m	979	1015	1050
H_{cJ} , Intrinsic Coercivity		Oersteds	20,000		
		kA/m	1,592		
BH_{max} , Maximum Energy Product		MGOe	43	45	46
		kJ/m ³	342	354	366

Thermal Properties	Characteristic	Units	C //	C ^	
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)		%/°C		-0.100	
of Coercivity, α(H _{cj})		%/°C		-0.535	
Coefficient of Thermal Expansion ⁽²⁾		ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity		W / (m • K)		7.6	
Other Properties	Specific Heat ⁽³⁾	J / (kg • K)		460	
	Curie Temperature, T _c	°C		350	
	Flexural Strength		psi		41,300
			MPa		285
	Density	g/cm ³			7.5
	Hardness, Vickers	Hv			620
	Electrical Resistivity, r	mW • cm			180

Notes: (1) Coefficients measured between 20 and 150 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.

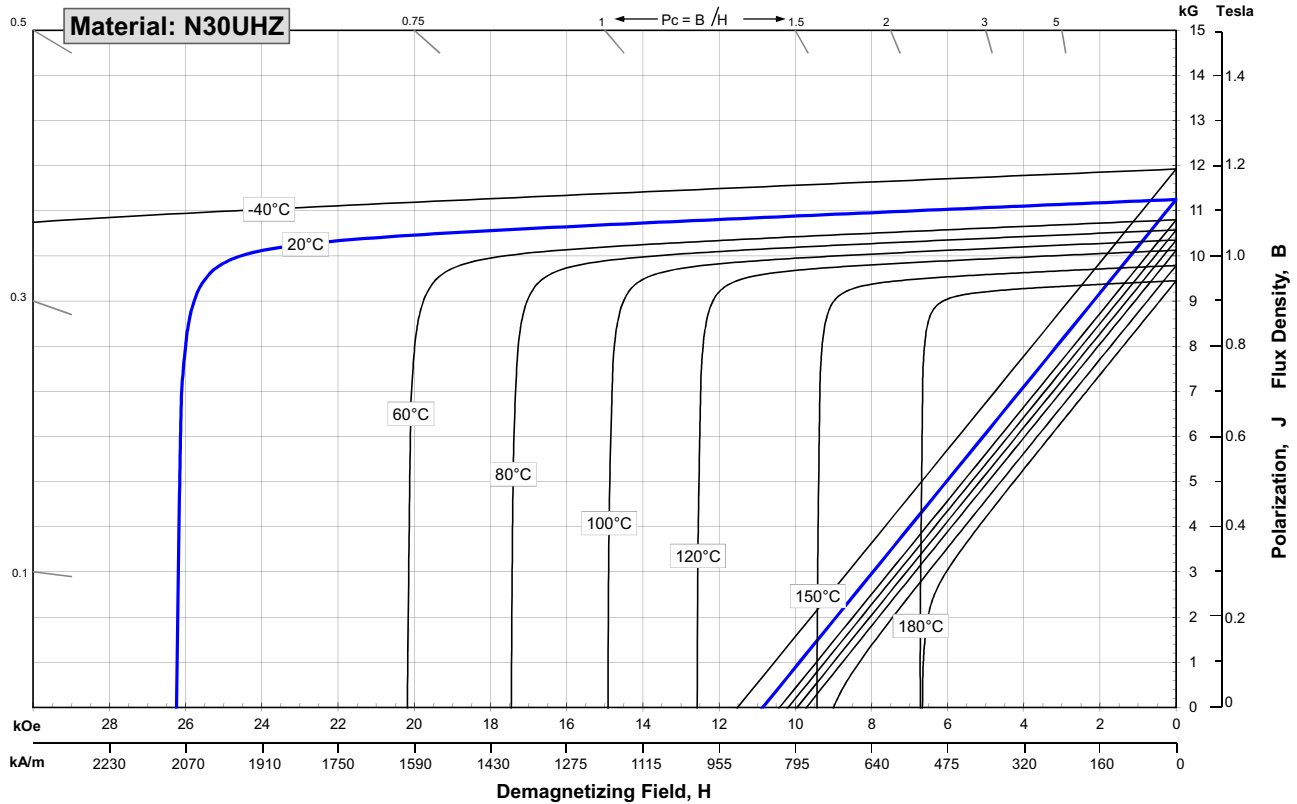
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	10,800
	mT	1080	1125	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	28	31	33
	kJ/m ³	223	243	263

Characteristic	Units	C // C ^		
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C		-0.100	
of Coercivity, α(H _{cj})	%/°C		-0.465	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1	
Thermal Conductivity	W / (m • K)		7.6	
Specific Heat ⁽³⁾	J / (kg • K)		460	
Curie Temperature, T _c	°C		350	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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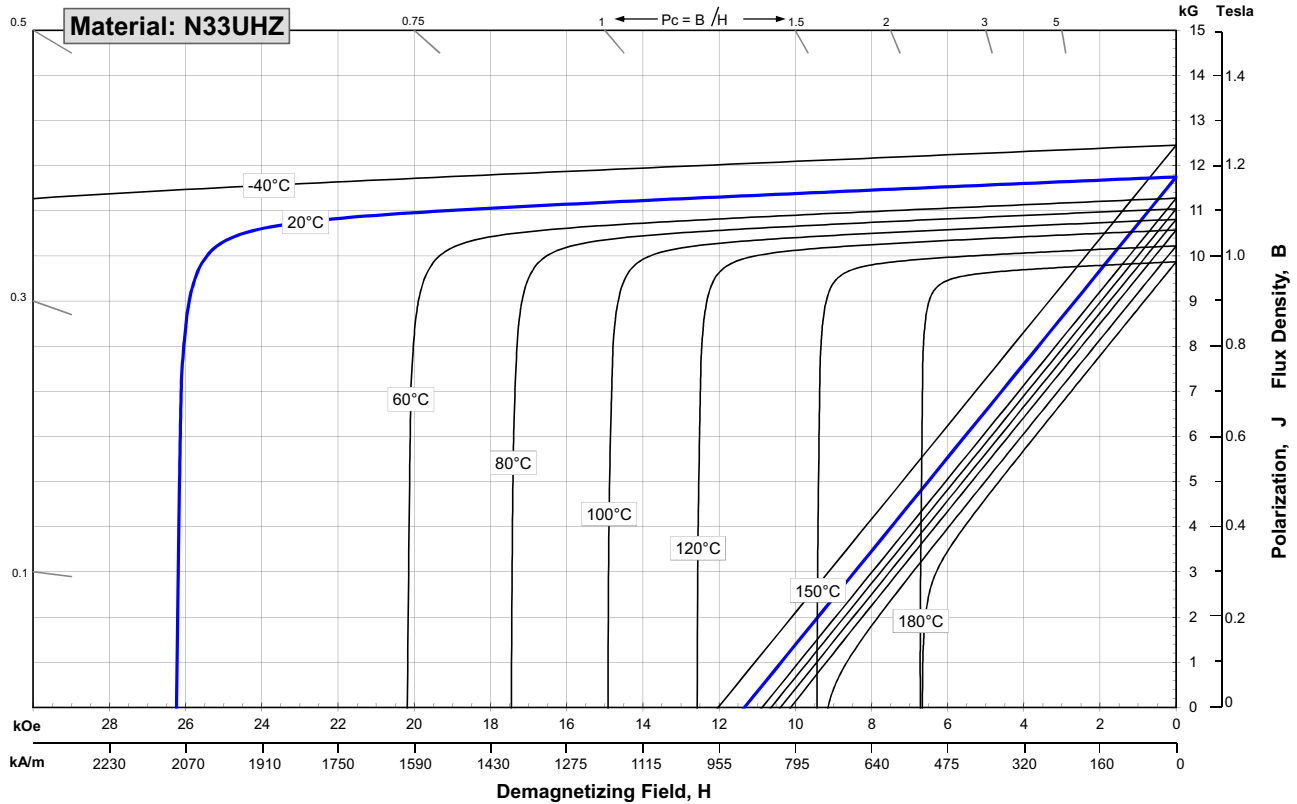
Sintered Neodymium-Iron-Boron Magnets

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Characteristic	Units	Magnetic Properties		
		min.	nominal	max.
Br , Residual Induction	Gauss	11,300	11,750	12,200
	mT	1130	1175	1220
H_{cB} , Coercivity	Oersteds	10,700	11,200	11,700
	kA/m	852	891	931
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	31	34	36
	kJ/m ³	247	267	287

Characteristic	Units	Thermal Properties	
		C //	C ^
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C	-0.100	
of Coercivity, α(H _{cj})	%/°C	-0.465	
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)	7.6	
Specific Heat ⁽³⁾	J / (kg • K)	460	
Curie Temperature, T _c	°C	350	
Other Properties			
Flexural Strength	psi	41,300	
	MPa	285	
Density	g/cm ³	7.5	
Hardness, Vickers	Hv	620	
Electrical Resistivity, r	mW • cm	180	

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

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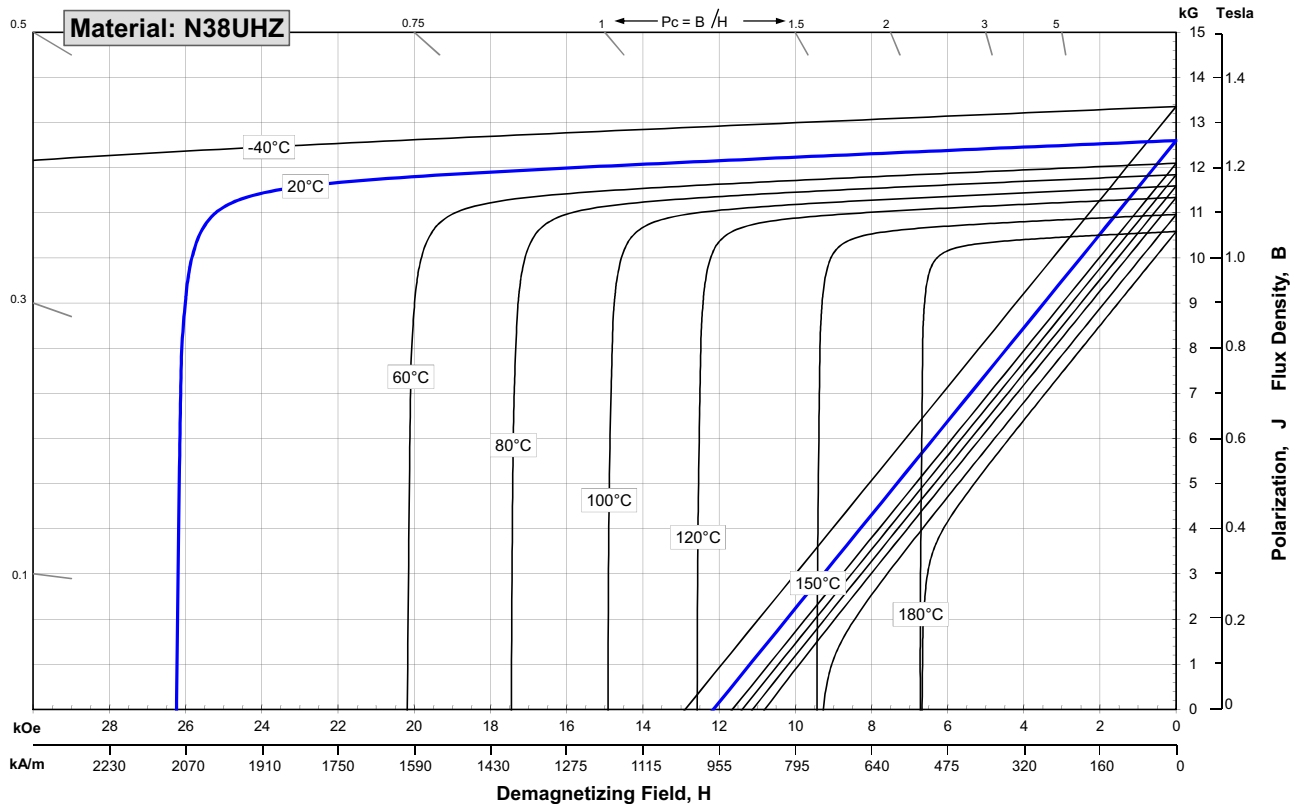
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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,200
	mT	1220	1260	1300
H_{cB} , Coercivity	Oersteds	11,000	11,700	12,400
	kA/m	876	931	987
H_{cJ} , Intrinsic Coercivity	Oersteds	25,000		
	kA/m	1,990		
BH_{max} , Maximum Energy Product	MGOe	36	39	41
	kJ/m ³	287	307	326

Characteristic	Units	C // C ^	
		Thermal Properties	
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(Br)	%/°C		-0.100
of Coercivity, α(H _{cj})	%/°C		-0.465
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m • K)		7.6
Specific Heat ⁽³⁾	J / (kg • K)		460
Curie Temperature, T _c	°C		350
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
	Electrical Resistivity, r	mW • cm	180

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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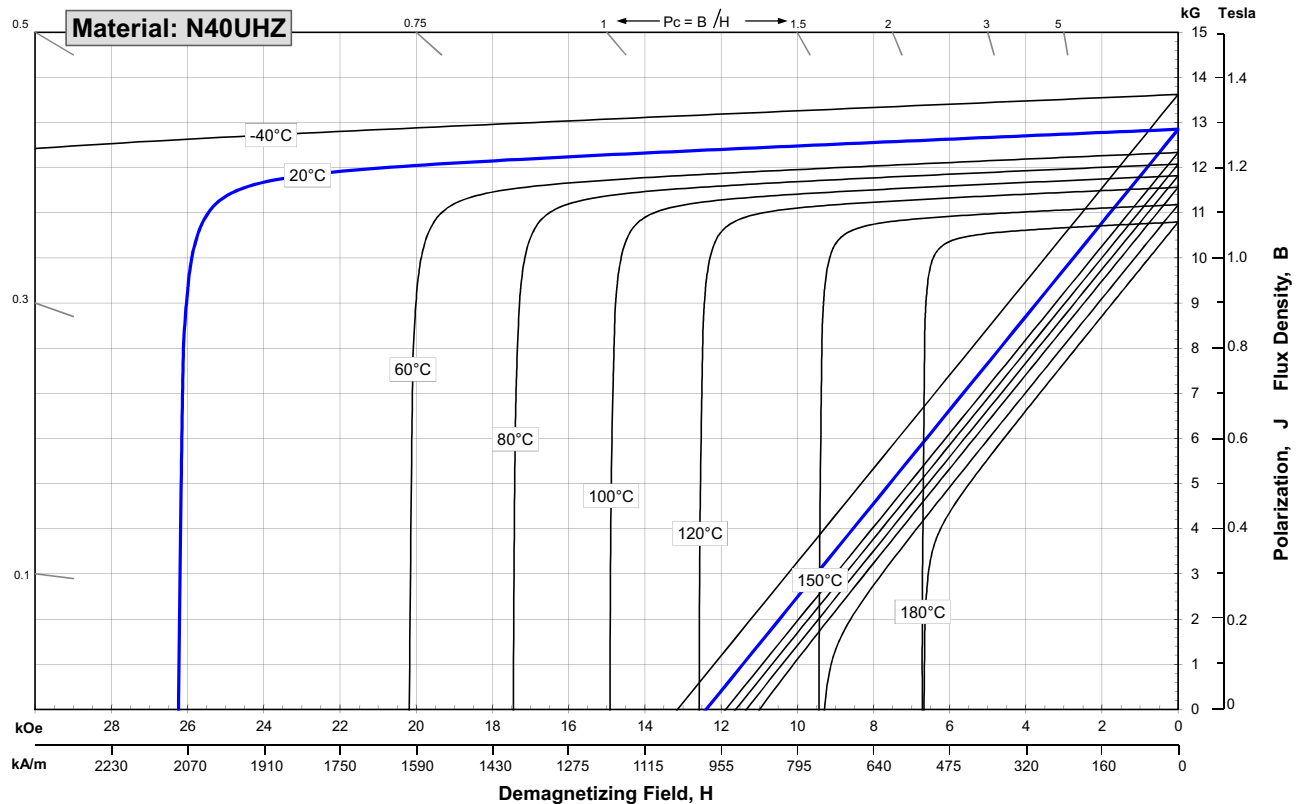
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	Br , Residual Induction	Gauss		12,500	12,850
mT			1250	1285	1320
H_{cB} , Coercivity	Oersteds		11,500	12,050	12,600
	kA/m		915	959	1003
H_{cJ} , Intrinsic Coercivity	Oersteds		25,000		
	kA/m		1,990		
BH_{max} , Maximum Energy Product	MGOe		38	40	42
	kJ/m ³		302	318	334

Thermal Properties	Characteristic	Units	C //	C ^
	Thermal Properties	Reversible Temperature Coefficients ⁽¹⁾		
of Induction, α(Br)		%/°C		-0.100
of Coercivity, α(H _{cj})		%/°C		-0.465
Other Properties	Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
	Thermal Conductivity	W / (m • K)		7.6
	Specific Heat ⁽³⁾	J / (kg • K)		460
	Curie Temperature, T _c	°C		350
	Flexural Strength	psi		41,300
Other Properties	Density	g/cm ³		7.5
	Hardness, Vickers	Hv		620
	Electrical Resistivity, r	mW • cm		180

Notes: (1) Coefficients measured between 20 and 180 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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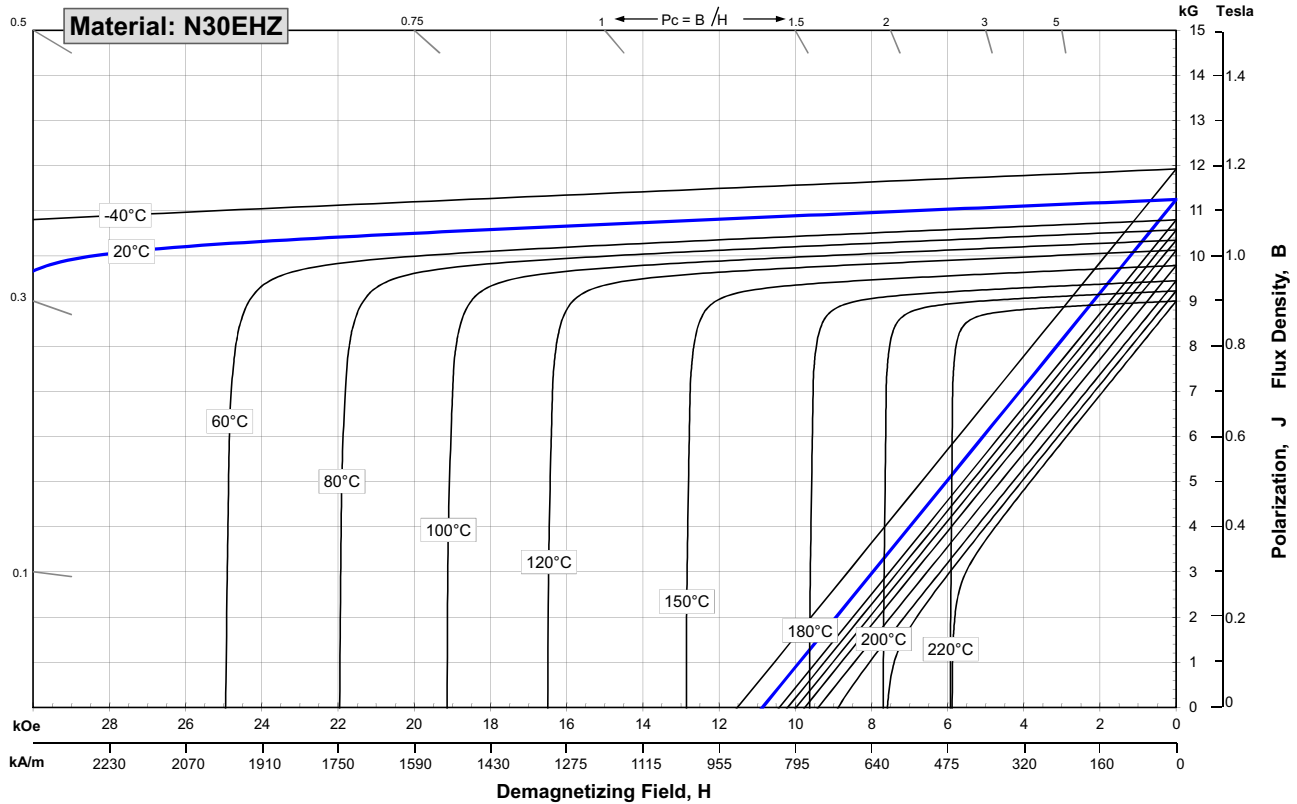
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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	10,800
	mT	1080	1125	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	28	31	33
	kJ/m ³	223	243	263

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.100
of Coercivity, α(H _{cj})	%/°C			-0.420
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m · K)			7.6
Specific Heat ⁽³⁾	J / (kg · K)			460
Curie Temperature, T _c	°C			350
Other Properties	Flexural Strength			psi
				MPa
	Density			g/cm ³
	Hardness, Vickers			Hv
	Electrical Resistivity, r			mW · cm

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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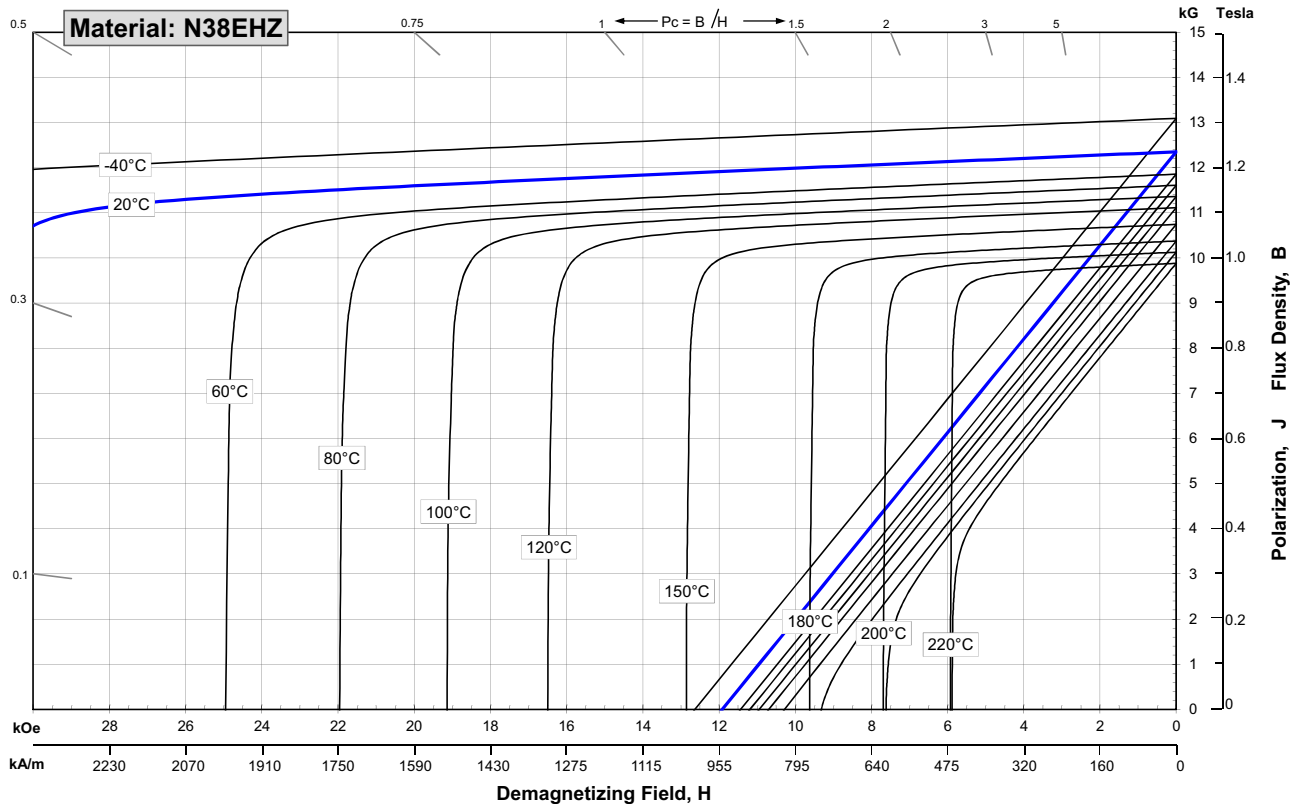
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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	12,000
	mT	1200	1235	1280
H_{cB} , Coercivity	Oersteds	11,300	11,750	12,200
	kA/m	899	935	971
H_{cJ} , Intrinsic Coercivity	Oersteds	30,000		
	kA/m	2,388		
BH_{max} , Maximum Energy Product	MGOe	36	38	40
	kJ/m ³	287	303	318

Characteristic	Units	C //		C ^
		Thermal Properties		
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)	%/°C			-0.100
of Coercivity, α(H _{cj})	%/°C			-0.420
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5		-0.1
Thermal Conductivity	W / (m • K)			7.6
Specific Heat ⁽³⁾	J / (kg • K)			460
Curie Temperature, T _c	°C			350
Other Properties				
Flexural Strength	psi			41,300
	MPa			285
Density	g/cm ³			7.5
Hardness, Vickers	Hv			620
Electrical Resistivity, r	mW • cm			180

Notes: (1) Coefficients measured between 20 and 200 °C
 (2) Between 20 and 200 °C
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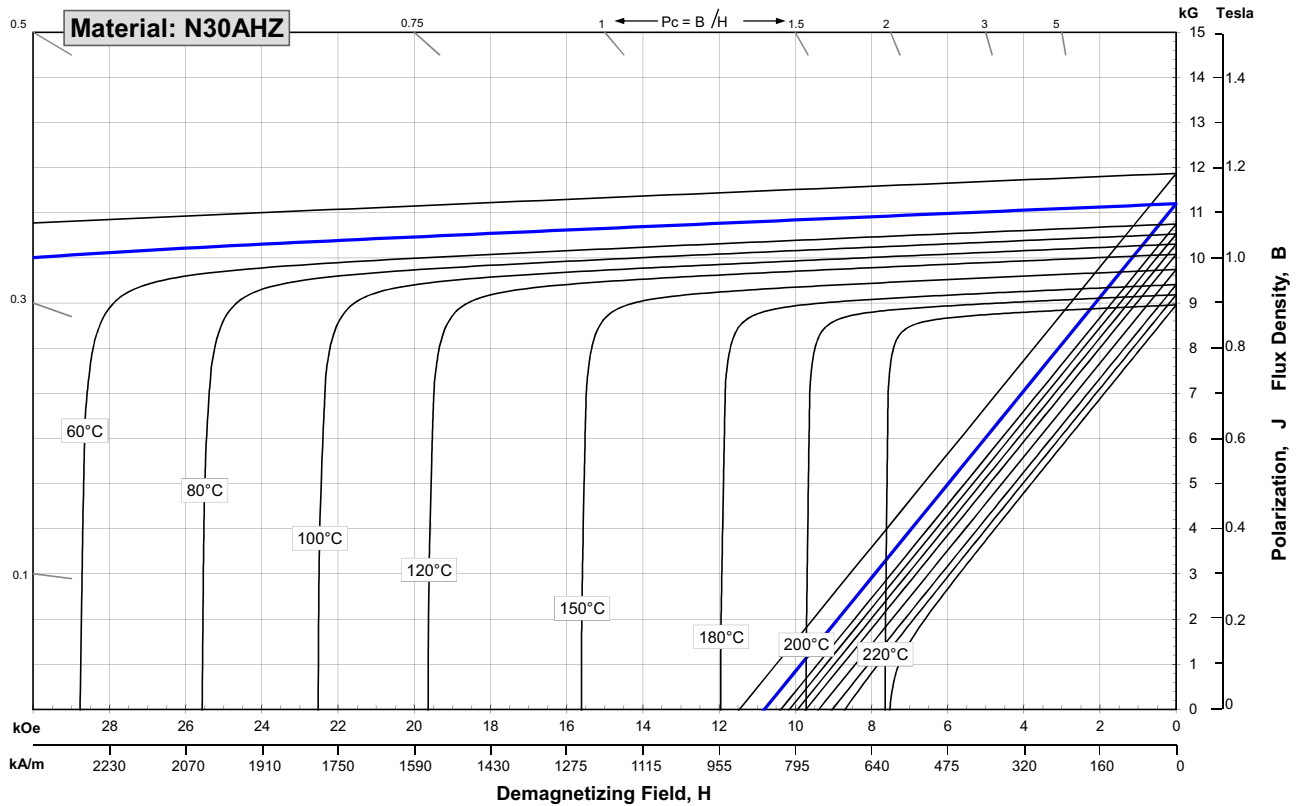
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Characteristic	Units	min.	nominal	max.
		Br , Residual Induction	Gauss	10,700
	mT	1070	1120	1170
H_{cB} , Coercivity	Oersteds	10,200	10,700	11,200
	kA/m	812	852	891
H_{cJ} , Intrinsic Coercivity	Oersteds	34,000		
	kA/m	2,706		
BH_{max} , Maximum Energy Product	MGOe	27	30	33
	kJ/m ³	215	239	263

Characteristic	Units	C // C ^	
		Reversible Temperature Coefficients ⁽¹⁾	
of Induction, α(Br)	%/°C		-0.100
of Coercivity, α(H _{cj})	%/°C		-0.393
Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °Cx10 ⁻⁶	7.5	-0.1
Thermal Conductivity	W / (m · K)		7.6
Specific Heat ⁽³⁾	J / (kg · K)		460
Curie Temperature, T _c	°C		350
Other Properties	Flexural Strength	psi	41,300
		MPa	285
	Density	g/cm ³	7.5
	Hardness, Vickers	Hv	620
Electrical Resistivity, r	mW · cm		180

Notes: (1) Coefficients measured between 20 and 220 °C
 (2) Between 20 and 200 °C
 (3) Between 20 and 140 °C



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