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.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Units</th>
<th>min.</th>
<th>nominal</th>
<th>max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>( B_r ), Residual Induction</td>
<td>Gauss</td>
<td>13,600</td>
<td>13,900</td>
<td>14,200</td>
</tr>
<tr>
<td>( H_{cb} ), Coercivity</td>
<td>Oersteds</td>
<td>12,700</td>
<td>13,150</td>
<td>13,600</td>
</tr>
<tr>
<td>( H_{cj} ), Intrinsic Coercivity</td>
<td>kA/m</td>
<td>1011</td>
<td>1046</td>
<td>1082</td>
</tr>
<tr>
<td>BHmax, Maximum Energy Product</td>
<td>MGOe</td>
<td>45</td>
<td>47</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>kJ/m³</td>
<td>358</td>
<td>374</td>
<td>390</td>
</tr>
</tbody>
</table>

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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**Material: G48SH**

- **Br**, Residual Induction: \( 13,600 \) to \( 14,200 \) Gauss
- **Hcb**, Coercivity: \( 12,700 \) to \( 13,600 \) Oersteds
- **Hcj**, Intrinsic Coercivity: \( 1011 \) to \( 1082 \) kA/m
- **BHmax**, Maximum Energy Product: \( 45 \) to \( 49 \) MGOe, \( 358 \) to \( 390 \) kJ/m³

**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 \( H_{cb} \).
- 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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