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>Br, Residual Induction</td>
<td>Gauss</td>
<td>12,100</td>
<td>12,350</td>
<td>12,600</td>
</tr>
<tr>
<td>HcB, Coercivity</td>
<td>Oersteds</td>
<td>11,500</td>
<td>11,750</td>
<td>12,000</td>
</tr>
<tr>
<td>Hci, Intrinsic Coercivity</td>
<td>kA/m</td>
<td>915</td>
<td>935</td>
<td>955</td>
</tr>
<tr>
<td>BHmax Maximum Energy Product</td>
<td>MGOe</td>
<td>36</td>
<td>39</td>
<td>41</td>
</tr>
</tbody>
</table>

**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.

**Graph:**
- Material: GSB38EH
- **Characteristics:**
  - Br, Residual Induction: Gauss
  - HcB, Coercivity: Oersteds
  - Hci, Intrinsic Coercivity: kA/m
  - BHmax Maximum Energy Product: MGOe

**Units:**
- Gauss (G)
- Oersteds (Oe)
- kA/m
- MGOe
- kJ/m³

**Units Conversion:**
- 1 kA/m = 12.566 Oe
- 1 kOe = 79.577 kA/m

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