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>11,700</td>
<td>12,100</td>
<td>12,500</td>
</tr>
<tr>
<td>HcB, Coercivity</td>
<td>mT</td>
<td>1170</td>
<td>1210</td>
<td>1250</td>
</tr>
<tr>
<td>HcJ, Intrinsic Coercivity</td>
<td>kA/m</td>
<td>876</td>
<td>915</td>
<td>955</td>
</tr>
<tr>
<td>BHmax, Maximum Energy Product</td>
<td>kG</td>
<td>11,000</td>
<td>11,500</td>
<td>12,000</td>
</tr>
</tbody>
</table>

Other Properties

- Magnetic Properties
- Thermal Properties
- Electrical Resistivity, \( \rho \) \( \mu \Omega \cdot \text{cm} \)

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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