

## Sintered Neodymium-Iron-Boron Magnets

Also available in other Energy Products from 30-55MGOe and Maximum Temperatures up to 230°C / 446°F. If you require DFAR Compliant material please contact our sales team directly with your requirements.

Characteristic		Units	min.	nominal	max.
<b>B<sub>r</sub></b> Residual Induction		Gauss	11,300	11,550	11,800
		mT	1130	1155	1180
<b>H<sub>CB</sub></b> Coercivity		Oersteds	10,300	10,800	11,300
		kA/m	820	859	899
<b>H<sub>cJ</sub></b> Intrinsic Coercivity		Oersteds	35,000		
		kA/m	2,785		
<b>BH<sub>max</sub></b> Maximum Energy Product		MGOe	31	33	34
		kJ/m <sup>3</sup>	247	259	271

Characteristic		Units	Nominal
Reversible Temperature Coefficients <sup>(1)</sup>			
of Induction, $\alpha(B_r)$		%/°C	-0.120
of Coercivity, $\alpha(H_{cJ})$		%/°C	-0.375
Curie Temperature, <b>T<sub>c</sub></b>		°C	310
Recommended Max use temperature <sup>(2)</sup>		°C	230

Characteristic		Units	Nominal
Density		g/cm <sup>3</sup>	7.5
Vickers Hardness		Hv	620
Coef Thermal Expansion		%/°Cx10 <sup>-6</sup>	7.5
		C ⊥	-0.1
Electrical Resistivity		μΩ • cm	180
Specific Heat		cal/g°C	0.11
		J/kg • K	460
Bending (flexural) Strength		MPa	285

Notes: (1) Coefficients measured between 20 and 230 °C  
(2) Recommended maximum use temperature based on a minimum P<sub>c</sub> of 2.2.

These magnetic characteristics and demagnetization curves represent typical production magnet performance across the specified temperature spectrum. Empirical testing for your application is advised for suitability determination.

Dura Magnetics Inc also supplies Alnico, Samarium Cobalt, and Ceramic magnets and magnetic assemblies, please contact sales@duramag.com or visit www.duramag.com.

