

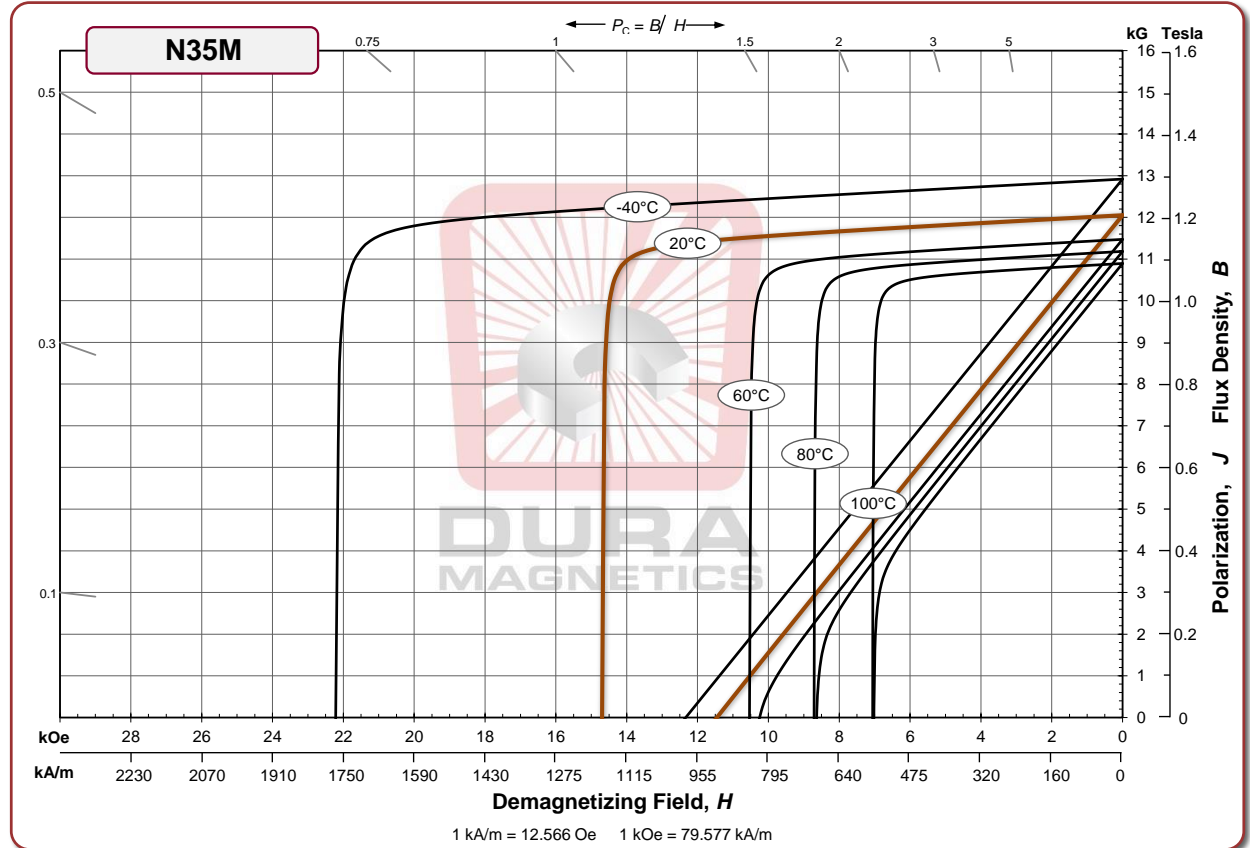
## Sintered Neodymium-Iron-Boron Magnets

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.

Magnetic Properties	Characteristic	Units	min.	nominal	max.
	$B_r$ Residual Induction		Gauss	11,800	12,050
		mT	1180	1205	1230
$H_{cB}$ Coercivity		Oersteds	10,900	11,350	11,800
		kA/m	868	903	939
$H_{cJ}$ Intrinsic Coercivity		Oersteds	14,000		
		kA/m	1,114		
$BH_{max}$ Maximum Energy Product		MGOe	33	35	36
		kJ/m <sup>3</sup>	263	275	287

Thermal Properties	Characteristic	Units	Nominal
	Reversible Temperature Coefficients <sup>(1)</sup>		
of Induction, $\alpha(B_r)$		%/°C	-0.120
	of Coercivity, $\alpha(H_{cJ})$	%/°C	-0.650
	Curie Temperature, $T_c$	°C	310
	Recommended Max use temperature <sup>(2)</sup>	°C	100

Physical Properties	Characteristic	Units	Nominal
		Density	g/cm <sup>3</sup>
	Vickers Hardness	Hv	620
	Coef Thermal Expansion	%/°Cx10 <sup>-6</sup>	C // 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 100 °C  
(2) Recommended maximum use temperature based on a minimum  $P_c$  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.