

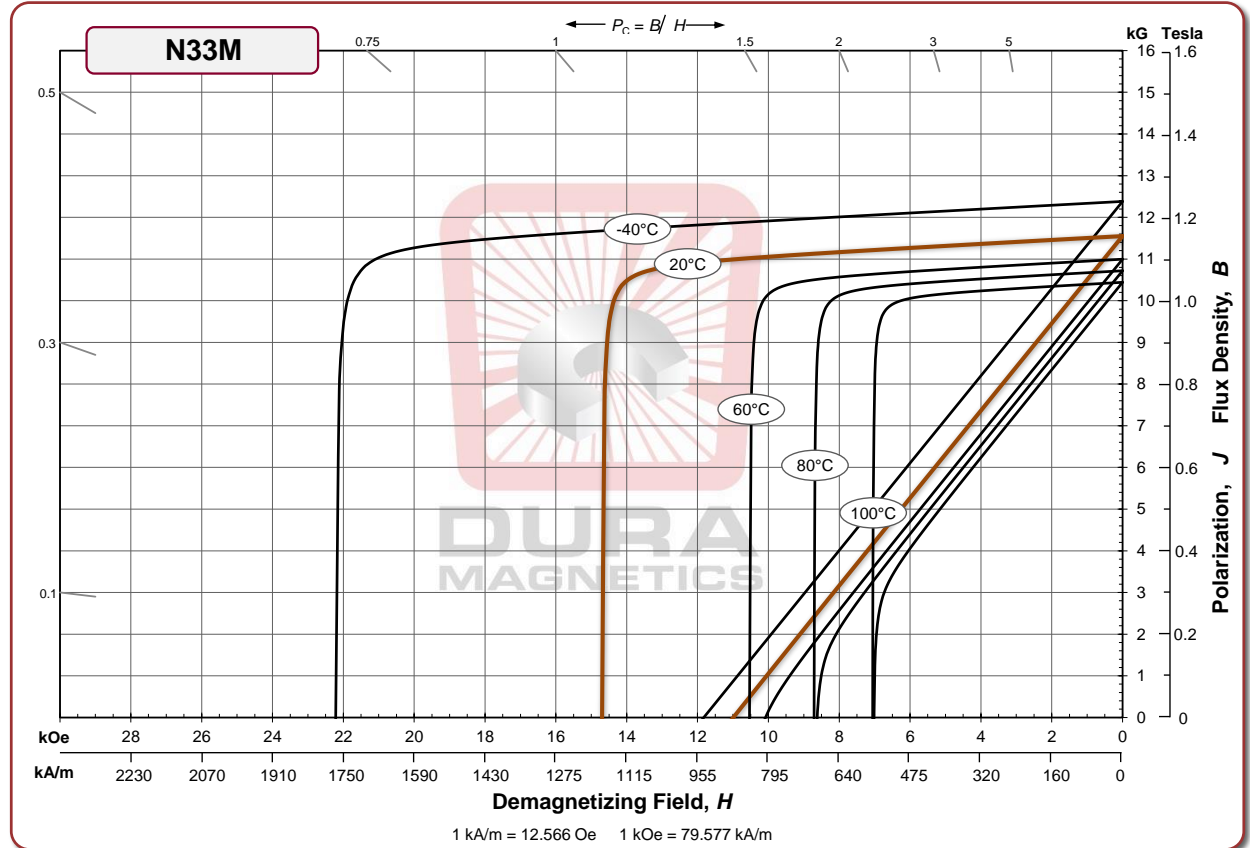
Sintered Neodymium-Iron-Boron Magnets

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	11,300	11,550	11,800
	mT	1130	1155	1180	
H_{cB} Coercivity	Oersteds	10,500	10,900	11,300	
	kA/m	836	867	899	
H_{cJ} Intrinsic Coercivity	Oersteds	14,000			
	kA/m	1,114			
BH_{max} Maximum Energy Product	MGOe	31	33	34	
	kJ/m ³	247	259	271	

Thermal Properties	Characteristic	Units	Nominal
	Reversible Temperature Coefficients ⁽¹⁾		
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 ⁽²⁾	°C		100

Physical Properties	Characteristic	Units	Nominal
	Density	g/cm ³	
Vickers Hardness	Hv		620
Coef Thermal Expansion	% / °C x 10 ⁻⁶	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.