

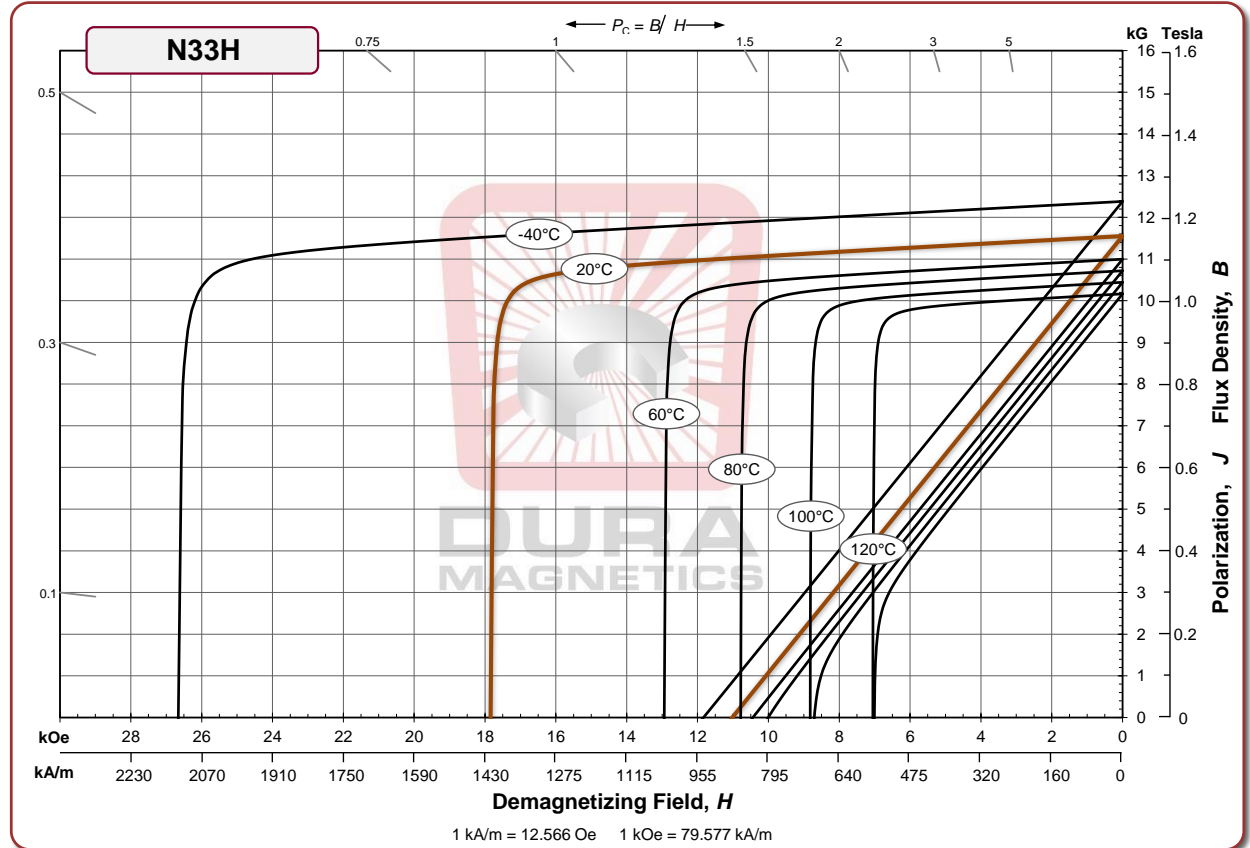
Sintered Neodymium-Iron-Boron Magnets

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
		mT	1130	1155	1180
H_{cB} Coercivity		Oersteds	10,500	10,900	11,300
		kA/m	836	867	899
H_{cJ} Intrinsic Coercivity		Oersteds	17,000		
		kA/m	1,353		
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	-0.605
	Curie Temperature, T_c	°C	310
	Recommended Max use temperature ⁽²⁾	°C	120

Physical Properties	Characteristic	Units	Nominal
		Density	g/cm ³
	Vickers Hardness	Hv	620
	Coef Thermal Expansion	%/°Cx10 ⁻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 120 °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.