

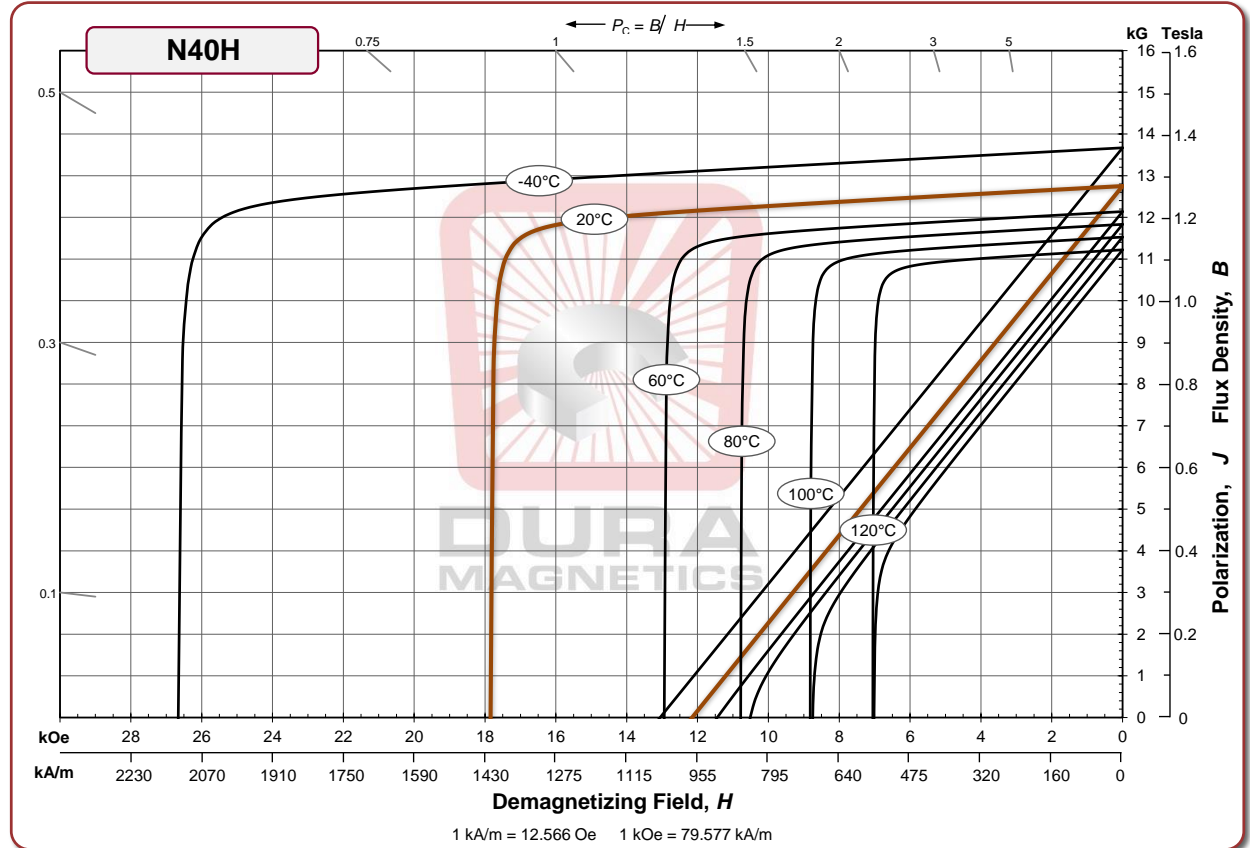
Sintered Neodymium-Iron-Boron Magnets

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	12,600	12,750	12,900
	mT	1260	1275	1290	
H_{cB} Coercivity	Oersteds	11,600	11,950	12,300	
	kA/m	923	951	979	
H_{cJ} Intrinsic Coercivity	Oersteds	17,000			
	kA/m	1,353			
BH_{max} Maximum Energy Product	MGOe	38	40	41	
	kJ/m ³	302	315	327	

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	% / °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 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.