

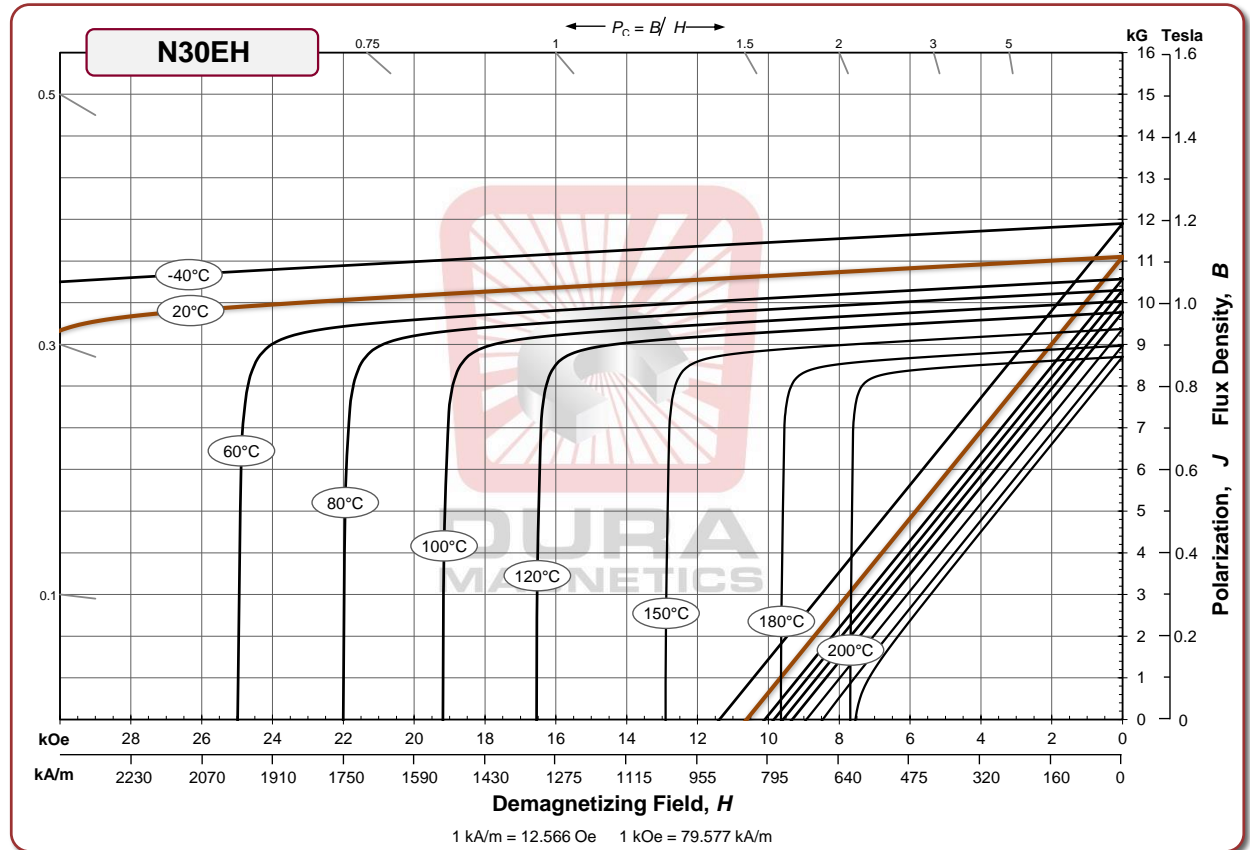
Sintered Neodymium-Iron-Boron Magnets

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_r Residual Induction		Gauss	10,800	11,100	11,400
		mT	1080	1110	1140
H_{cB} Coercivity		Oersteds	10,100	10,500	10,900
		kA/m	804	836	867
H_{cJ} Intrinsic Coercivity		Oersteds	30,000		
		kA/m	2,388		
BH_{max} Maximum Energy Product		MGOe	28	30	31
		kJ/m^3	223	235	247

Characteristic		Units	Nominal
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, $\alpha(B_r)$		%/°C	-0.120
of Coercivity, $\alpha(H_{cJ})$		%/°C	-0.420
Curie Temperature, T_c		°C	310
Recommended Max use temperature ⁽²⁾		°C	200

Characteristic		Units	Nominal
Density		g/cm^3	7.5
Vickers Hardness		Hv	620
Coef Thermal Expansion		$\% / ^\circ\text{C} \times 10^{-6}$	7.5
		C \perp / C //	-0.1
Electrical Resistivity		$\mu\Omega \cdot \text{cm}$	180
Specific Heat		$\text{cal/g} \cdot ^\circ\text{C}$	0.11
		$\text{J/kg} \cdot \text{K}$	460
Bending (flexural) Strength		MPa	285



Notes: (1) Coefficients measured between 20 and 200 °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.