

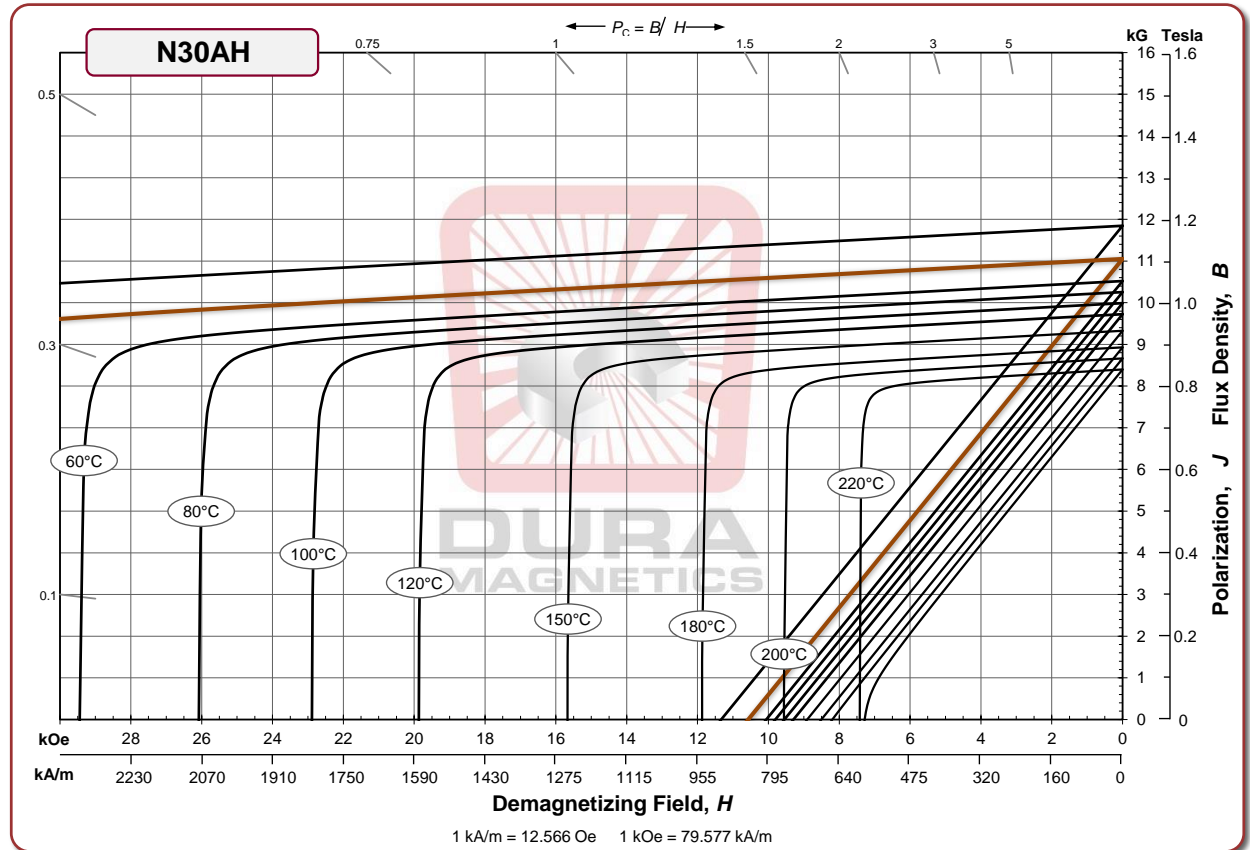
## Sintered Neodymium-Iron-Boron Magnets

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	10,800	11,050
		mT	1080	1105	1130
$H_{CB}$ Coercivity		Oersteds	10,100	10,450	10,800
		kA/m	804	832	859
$H_{cJ}$ Intrinsic Coercivity		Oersteds	35,000		
		kA/m	2,785		
$BH_{max}$ Maximum Energy Product		MGOe	28	30	31
		kJ/m <sup>3</sup>	223	235	247

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	-0.393
	Curie Temperature, $T_c$	°C	310
Recommended Max use temperature <sup>(2)</sup>	°C	230	

Physical Properties	Characteristic	Units	Nominal	
	Density	g/cm <sup>3</sup>	7.5	
	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 230 °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.