

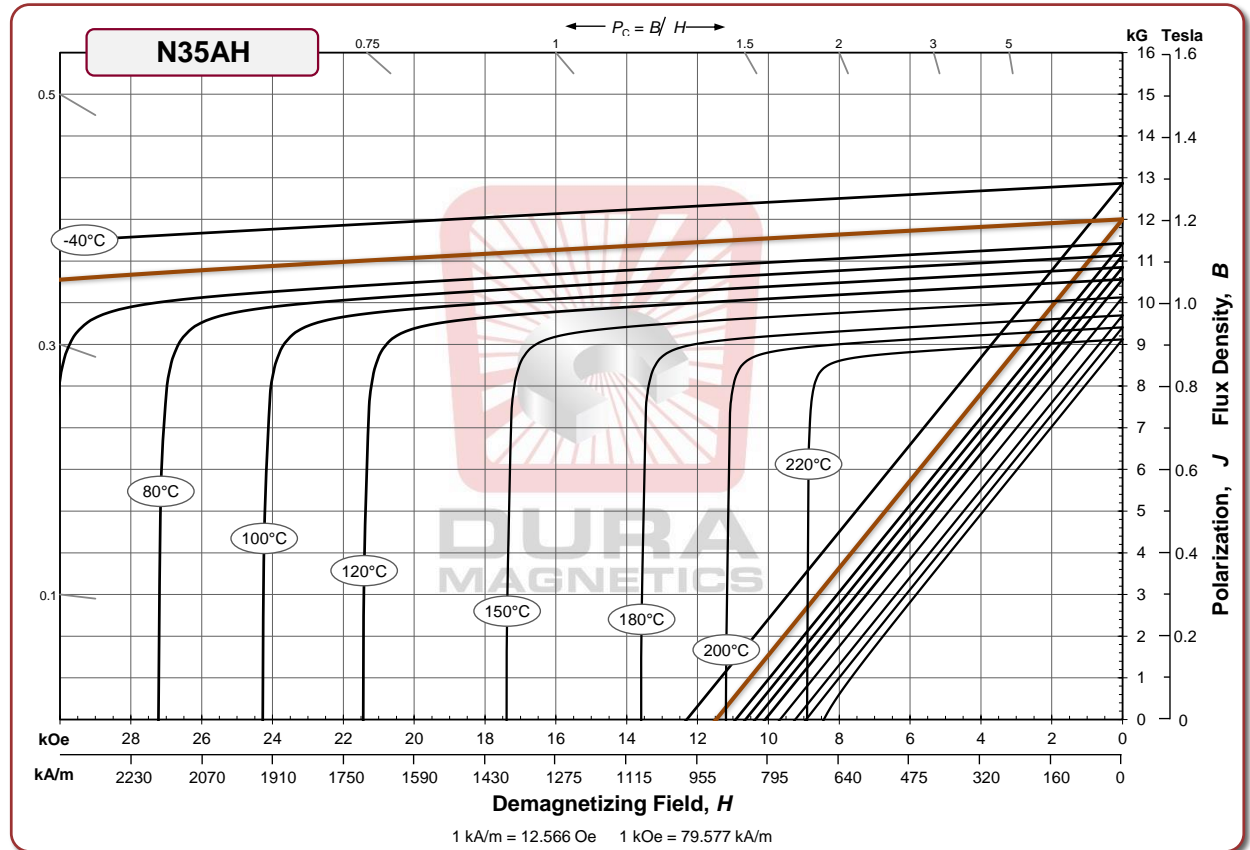
Sintered Neodymium-Iron-Boron Magnets

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	11,700	12,000	12,300
	mT	1170	1200	1230	
H_{cB} Coercivity	Oersteds	10,800	11,300	11,800	
	kA/m	860	899	939	
H_{cJ} Intrinsic Coercivity	Oersteds	35,000			
	kA/m	2,785			
BH_{max} Maximum Energy Product	MGOe	33	35	36	
	kJ/m ³	263	275	287	

Thermal Properties	Characteristic	Units	Nominal
	Reversible Temperature Coefficients ⁽¹⁾		
	of Induction, $\alpha(B_r)$	%/°C	-0.120
	of Coercivity, $\alpha(H_{cJ})$	%/°C	-0.375
	Curie Temperature, T_c	°C	310
Recommended Max use temperature ⁽²⁾	°C	230	

Physical Properties	Characteristic	Units	Nominal	
	Density	g/cm ³	7.5	
	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 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.