SHANGHAI UNITED METAL MATERIALS CO.,LTD

上海秉瑞金属材料有限公司

Shanghai: Wentong Plaza No.398 Guiyang Road, Yangpu District, Shanghai, P.R.China,200092

Tel, +86-21-5512 8902/01, Fax: +86-21-5512 8903, ElectroFax: +86-21-96 870 003 373

N30H

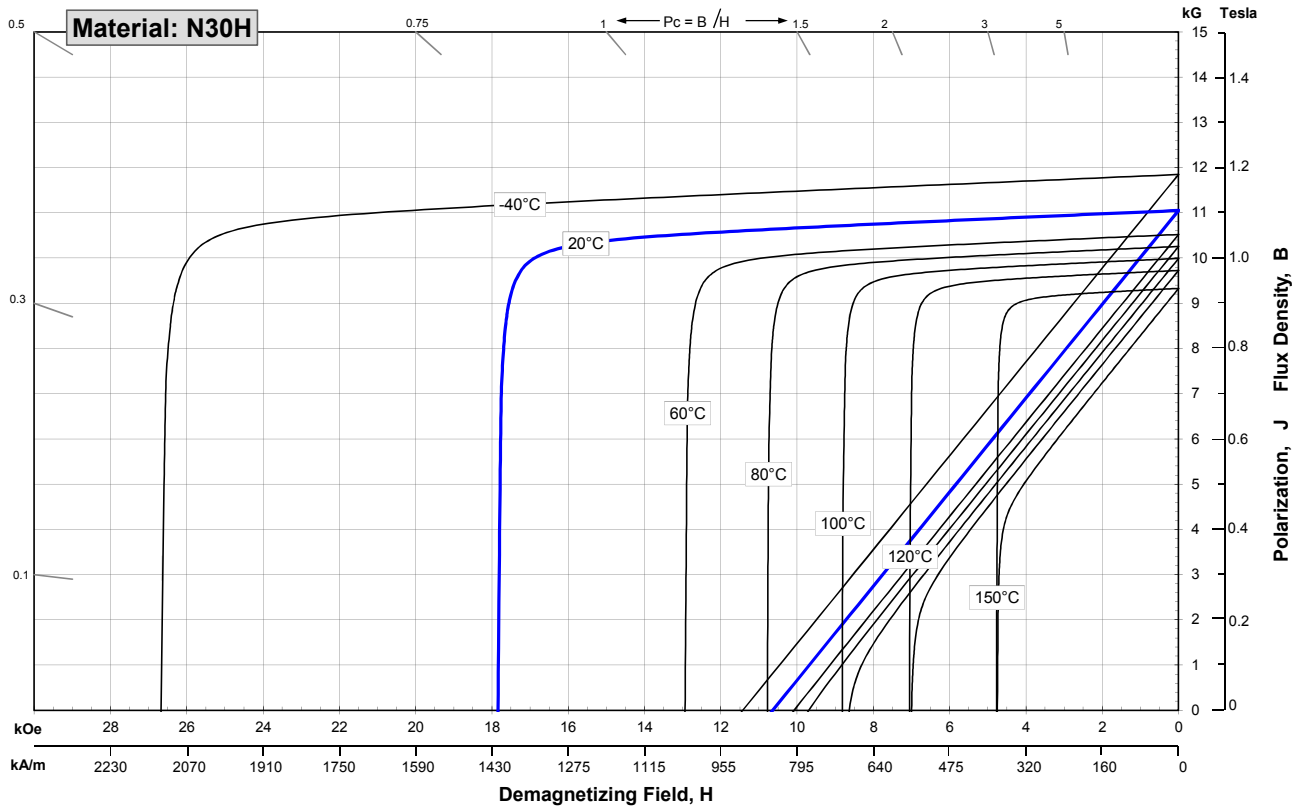
Sintered Neodymium-Iron-Boron Magnets

These are also referred to as "Neo" or NdFeB magnets. They offer a combination of high magnetic output at moderate cost. Please contact Arnold for additional grade information and recommendations for protective coating. Assemblies using these magnets can also be provided.

	Characteristic	Units	min.	nominal	max.
Magnetic Properties	**Br**, Residual Induction	Gauss	10,800	11,050	11,300
		mT	1080	1105	1130
	H_{cB}, Coercivity	Oersteds	10,000	10,400	10,800
		kA/m	796	828	859
	H_{cJ}, Intrinsic Coercivity	Oersteds	17,000		
		kA/m	1,353		
	BHmax, Maximum Energy Product	MGOe	28	30	31
		kJ/m^3	223	235	247

	Characteristic	Units	C //	C ⊥
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/°C	-0.120	
	of Coercivity, α(Hcj)	%/°C	-0.605	
	Coefficient of Thermal Expansion (2)	ΔL/L per °Cx10^{-6}	7.5	-0.1
	Thermal Conductivity	W / (m • K)	7.6	
	Specific Heat (3)	J / (kg • K)	460	
	Curie Temperature, Tc	°C	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.5	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	180	

Notes: (1) Coefficients measured between 20 and 120 °C
(2) Between 20 and 200 °C (3) Between 20 and 140 °C



1 kA/m = 12.566 Oe 1 kOe = 79.577 kA/m

Notes The material data and demagnetization curves shown above represent typical properties that may vary due to product shape and size. Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications. Additional grades are available. Please contact the factory for information.