ARNOLD MAGNETIC TECHNOLOGIES

N35AH

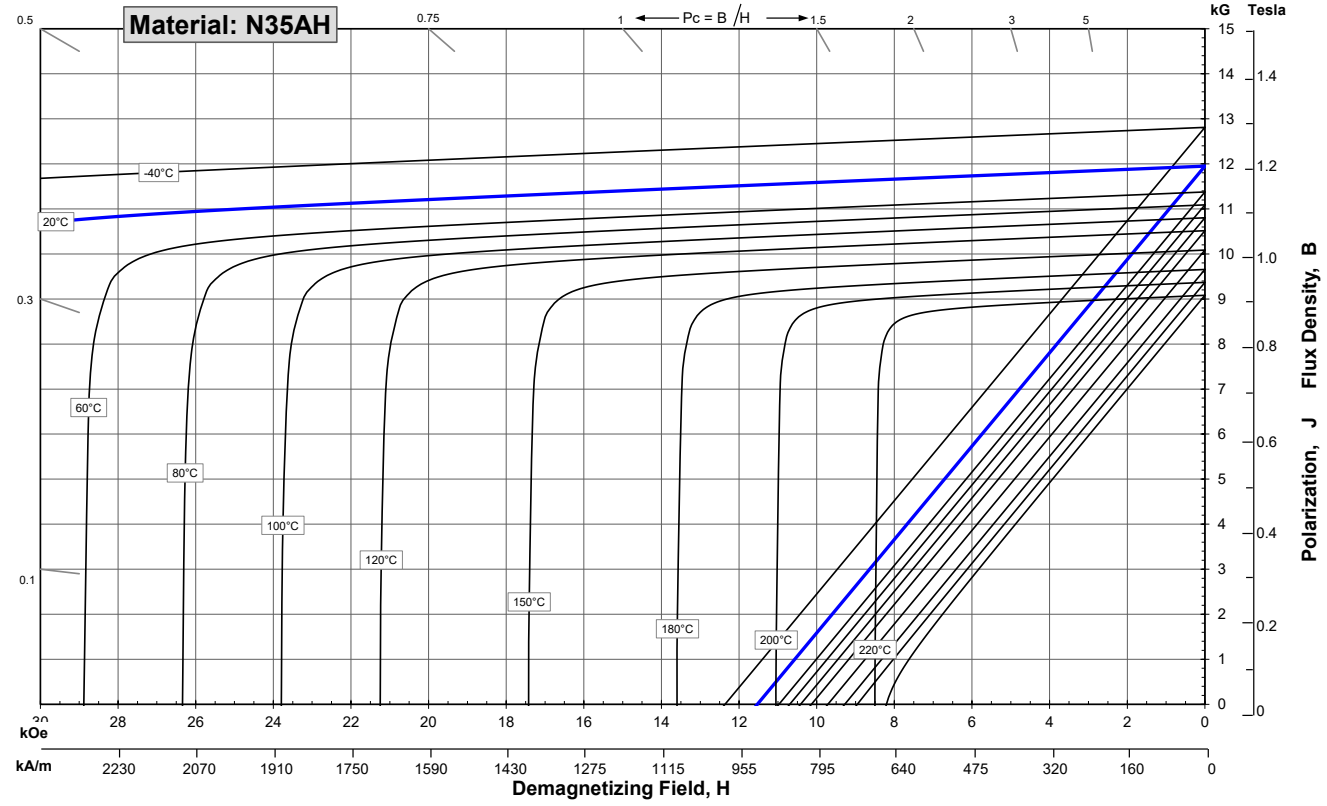
Sintered Neodymium-Iron-Boron Magnets

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	11,700	11,950	12,200
		mT	1170	1195	1220
	H_{cB}, Coercivity	Oersteds	907	6,300	11,700
		kA/m	883	501	931
	H_{cJ}, Intrinsic Coercivity	Oersteds	34,000		
		kA/m	931		
	BHmax, Maximum Energy Product	MGOe	33	34	35
		kJ/m^3	263	269	275

	Characteristic	Units	C //	C ⊥
Thermal Properties	Reversible Temperature Coefficients (1)			
	of Induction, α(Br)	%/ºC	-0.12	
	of Coercivity, α(Hcj)	%/ºC	-0.38	
	Coefficient of Thermal Expansion (2)	ΔL/L per ºCx10^{-6}	7	-1
	Thermal Conductivity	kcal/mhrºC	5.3	5.8
	Specific Heat (3)	cal/gºC	460	
	Curie Temperature, Tc	ºC	310	
Other Properties	Flexural Strength	psi	41,300	
		MPa	285	
	Density	g/cm^3	7.6	
	Hardness, Vickers	Hv	620	
	Electrical Resistivity, ρ	μΩ • cm	150 // 130 ⊥	

Notes: (1) Coefficients measured between 20 and 220 ºC
(2) Between 20 and 200 ºC. Values are typical and can vary.
(3) Between 20 and 140 ºC



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.
Demagnetization curves show nominal Br and minimum Hcj.
Magnets can be supplied thermally stabilized or magnetically calibrated to customer specifications.
Additional grades are available. Please contact the factory for information.

© Arnold Magnetic Technologies Corp.
770 Linden Avenue, Rochester, NY 14625
Ph: (+1) 585-385-9010
E-mail: info@arnoldmagnetics.com
www.arnoldmagnetics.com