



# Spacemagnets Europe GmbH

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**N-35UH**

## Sintered NdFeB-Magnets

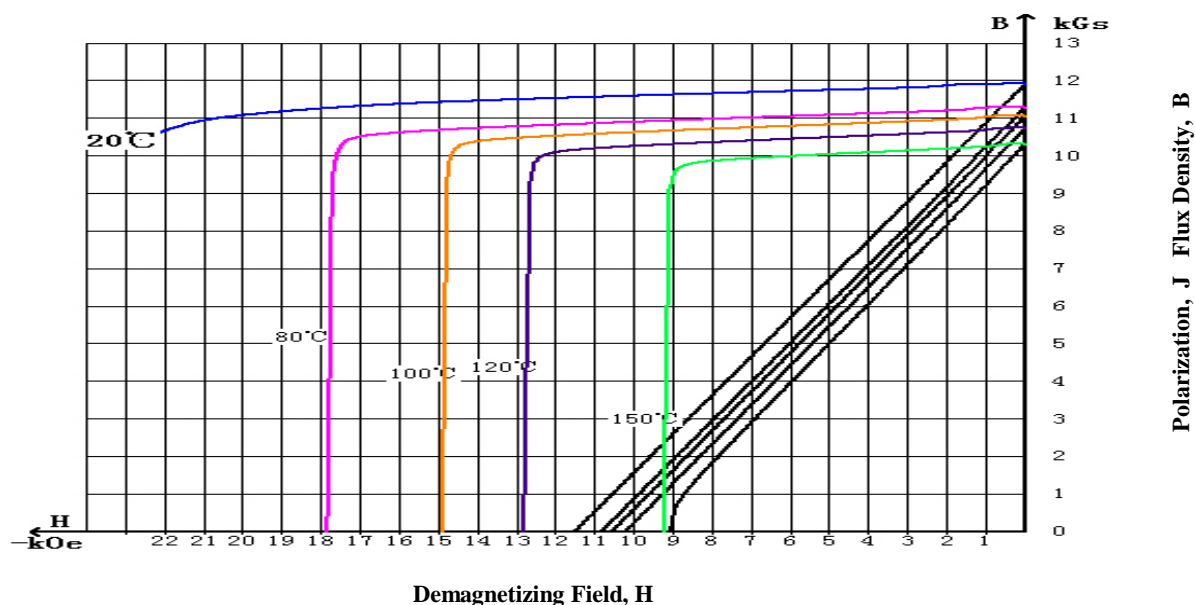
A neodymium magnet (also known as NdFeB, NIB or Neo magnet), the most widely used type of rare-earth magnet, is a permanent magnet made from an alloy of neodymium, iron and boron to form the Nd<sub>2</sub>Fe<sub>14</sub>B tetragonal crystalline structure. NdFeB-magnets are the strongest type of permanent magnet commercially available.

Magnetic Properties	Characteristic	Unit	Min	Nominal	Max
	<b>Br</b> Residual Induction		Gauss	11700	11950
		mT	1170	1195	1220
<b>Hcb</b> Coercivity		Oersteds	10800		
		KA/M	860		
<b>Hcj</b> Intrinsic Coercivity		Oersteds	25000		
		KA/M	1990		
<b>BHmax</b> Maximum Energy Product		MGOe	33	34.5	36
		KJ/M <sup>3</sup>	263	275	287

Thermal Properties	Characteristic	Unit	C//	C⊥
	Reversible Temperature Coefficients <sup>(1)</sup>			
	Of Induction, α (Br)	%/°C		-0.12
	Of Coercivity, β (Hcj)	%/°C		-0.465
	Coefficient of Thermal Expansion <sup>(2)</sup>	ΔL/L per °C×10 <sup>-6</sup>	7.5	-0.1
	Thermal Conductivity	kcal/mhr°C	5.3	5.8
	Specific Heat <sup>(3)</sup>	cal/g°C		0.11
	Curie Temperature, T <sub>c</sub>	°C		310
Other Properties	Flexural Strength		psi	41300
			Mpa	285
	Density		g/cm <sup>3</sup>	7.6
	Hardness, Vickers		Hv	620
	Electrical Resistivity		μΩ.cm	180

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

## Material: N-35UH



1KA/M = 12.566 Oe

1Koe = 79.577 KA/M

10KGs = 1 Tesla

**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 thermal stabilized or magnetically calibrated to customer specifications. Additional grades are available, Please contact the factory for information.