

Spacemagnets Europe GmbH

Spacemagnets Serve the World

N-40EH

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 Nd2Fe14B tetragonal crystalline structure. NdFeB-magnets are the strongest type of permanent magnet commercially available.

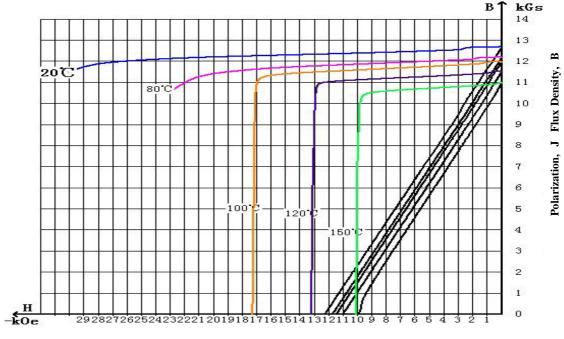
Magnetic Properites	Characteristic	Unit	Min	Nominal	Max
	Br Residual Induction	Gauss	12500	12650	12800
		mT	1250	1265	1280
	Hcb Coercivity	Oersteds	11300		
		KA/M	899		
	Hcj Intrinsic Coercivity	Oersteds	30000		
		KA/M	2388		
	BHmax Maximum Energy Product	MGOe	38	39.5	41
		KJ/M ³	302	314	326

	Characteristic	Unit	C //	$\mathbf{C}\bot$
ites	Reversible Temperature Coefficients (1)			
er	Of Induction, α (Br)	%/°C	-0.12	
rol	Of Coercivity, β (Hcj)	%/°C	-0.42	
Thermal Properites	Coefficient of Thermal Expansion (2)	△L/L per °Cx10 ⁻⁶	7.5	-0.1
ı E	Thermal Conductivity	kcal/mhr°C	7.6	5.8
l jë	Specific Heat (3)	cal/g°C	0.11	
	Curie Temperature, Tc	℃	310	
	Flexural Strength	psi	41300	
Other roperites	riexurai Strengtii	Mpa	285	
Other	Density	g/cm3	7.6	
lo ē	Hardness, Vickers	Hv	620	
4	Electrical Resistivity	μΩ.cm	180	

Notes:

- (1) Coefficients measured between 20 and 180 °C
- (2) Between 20 and 180 °C
- (3) Between 20 and 140 °C

Material: N-40EH



Demagnetizing Field, H

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.