

Spacemagnets Europe GmbH

Spacemagnets Serve the World

N-28EH

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.

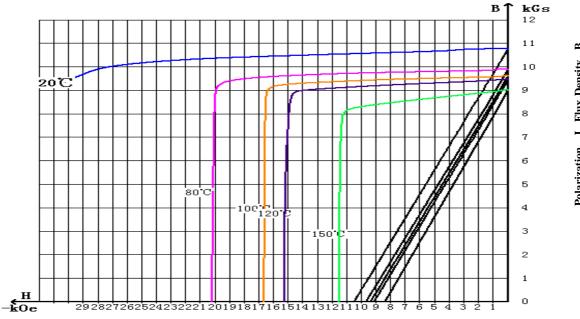
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|---------------------|------------------------------|-------------------|-------|---------|-------|
| Magnetic Properites | Characteristic | Unit | Min | Nominal | Max |
| | Br Residual Induction | Gauss | 10400 | 10600 | 10800 |
| | | mT | 1040 | 1060 | 1080 |
| | Hcb Coercivity | Oersteds | 9800 | | |
| | | KA/M | 780 | | |
| | Hcj Intrinsic Coercivity | Oersteds | 30000 | | |
| | | KA/M | 2388 | | · |
| | BHmax Maximum Energy Product | MGOe | 26 | 27.5 | 29 |
| | | KJ/M ³ | 207 | 219 | 231 |

| | Characteristic | Unit | C// | $\mathbf{C}\bot$ | |
|--------------------|---|------------------------------|-------|------------------|--|
| ite | Reversible Temperature Coefficients (1) | | | | |
| per | Of Induction, α (Br) | %/°C | -0.12 | | |
| ro | Of Coercivity, β (Hcj) | %/°C | -0 | -0.42 | |
| Thermal Properites | Coefficient of Thermal Expansion (2) | △L/L per °Cx10 ⁻⁶ | 7.5 | -0.1 | |
| E | Thermal Conductivity | kcal/mhr°C | 7.6 | 5.8 | |
| l ğ | Specific Heat (3) | cal/g°C | 0.11 | | |
| | Curie Temperature, Tc | °C | 310 | | |
| 70 | Flexural Strength | psi | 41300 | | |
| Other roperites | Plexurar Strength | Mpa | 285 | | |
| Other | Density | g/cm3 | 7.6 | | |
| | Hardness, Vickers | Hv | 620 | | |
| Ь | 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-28EH



10KGs = 1 Tesla

Demagnetizing Field, H

1KA/M = 12.566 Oe1Koe = 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 thermal stabilized or magnetically calibrated to customer specifications.

Additional grades are available, Please contact the factory for information.

Polarization, J Flux Density,