

Properties for Sintered Nd-Fe-B Magnets

燒結釹鐵硼磁石特性表

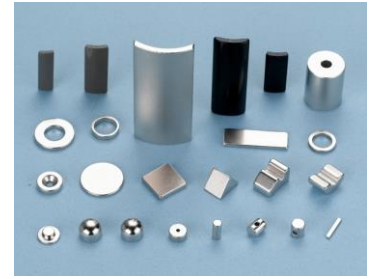
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| Property Grade | Remanence Br (KG) | | Coercive Force bHc(Koe) | | Intrinsic Coercive Force iHc(Koe) | Max. Energy product BHmax.(MGOe) | Working Temperature °C |
|----------------|-------------------|------|--------------------------|------|-----------------------------------|----------------------------------|------------------------|
| | min. | nom. | min. | nom. | | | |
| N28EH | 10.4~10.8 | | ≥ 9.5 | | ≥ 30 | 26~29 | 200°C |
| N30H | 10.8~11.3 | | ≥ 10.0 | | ≥ 17 | 28~31 | 120°C |
| N30SH | 10.9~11.4 | | ≥ 10.1 | | ≥ 20 | 28~31 | 150°C |
| N30UH | 10.9~11.4 | | ≥ 10.2 | | ≥ 25 | 28~31 | 180°C |
| N30EH | 10.8~11.3 | | ≥ 10.2 | | ≥ 30 | 28~31 | 200°C |
| N30AH | 10.8~11.3 | | ≥ 10.2 | | ≥ 35 | 28~32 | 220°C |
| N33 | 11.3~11.7 | | ≥ 10.5 | | ≥ 12 | 31~33 | 80°C |
| N33M | 11.3~11.7 | | ≥ 10.5 | | ≥ 14 | 31~34 | 100°C |
| N33H | 11.3~11.7 | | ≥ 10.5 | | ≥ 17 | 31~33 | 120°C |
| N33SH | 11.3~11.7 | | ≥ 10.6 | | ≥ 20 | 31~33 | 150°C |
| N33UH | 11.3~11.7 | | ≥ 10.7 | | ≥ 25 | 31~33 | 180°C |
| N33EH | 11.3~11.7 | | ≥ 10.5 | | ≥ 30 | 31~33 | 200°C |
| N33AH | 11.2~11.7 | | ≥ 10.2 | | ≥ 35 | 31~34 | 220°C |
| N35 | 11.7~12.1 | | ≥ 10.8 | | ≥ 12 | 33~36 | 80°C |
| N35M | 11.7~12.1 | | ≥ 10.9 | | ≥ 14 | 33~36 | 100°C |
| N35H | 11.7~12.1 | | ≥ 10.9 | | ≥ 17 | 33~36 | 120°C |
| N35SH | 11.7~12.1 | | ≥ 11.0 | | ≥ 20 | 33~36 | 150°C |
| N35UH | 11.7~12.1 | | ≥ 10.7 | | ≥ 25 | 33~36 | 180°C |
| N35EH | 11.7~12.1 | | ≥ 11.0 | | ≥ 30 | 33~36 | 200°C |
| N35AH | 11.7~12.1 | | ≥ 10.2 | | ≥ 35 | 33~36 | 220°C |
| N38 | 12.1~12.5 | | ≥ 11.3 | | ≥ 12 | 36~39 | 80°C |
| N38M | 12.1~12.5 | | ≥ 11.3 | | ≥ 14 | 36~39 | 100°C |
| N38H | 12.1~12.5 | | ≥ 11.3 | | ≥ 17 | 36~39 | 120°C |
| N38SH | 12.1~12.5 | | ≥ 11.4 | | ≥ 20 | 36~39 | 150°C |
| N38UH | 12.1~12.5 | | ≥ 11.4 | | ≥ 25 | 36~39 | 180°C |
| N38EH | 12.1~12.5 | | ≥ 11.4 | | ≥ 30 | 36~39 | 200°C |
| N38AH | 12.1~12.5 | | ≥ 11.4 | | ≥ 33 | 36~39 | 220°C |
| N40 | 12.5~12.8 | | ≥ 11.4 | | ≥ 12 | 38~41 | 80°C |
| N40M | 12.5~12.8 | | ≥ 11.6 | | ≥ 14 | 38~41 | 100°C |
| N40H | 12.4~12.8 | | ≥ 11.5 | | ≥ 17 | 38~41 | 120°C |
| N40SH | 12.5~12.8 | | ≥ 11.8 | | ≥ 20 | 38~41 | 150°C |
| N40UH | 12.5~12.8 | | ≥ 11.4 | | ≥ 25 | 38~41 | 180°C |
| N40EH | 12.5~12.8 | | ≥ 11.4 | | ≥ 30 | 38~41 | 200°C |

| Property Grade | Remanence Br (KG) | | Coercive Force bHc (Koe) | | Intrinsic Coercive Force iHc(Koe) | Max. Energy product BHmax.(MGOe) | Working Temperature °C |
|----------------|-------------------|------|--------------------------|------|-----------------------------------|----------------------------------|------------------------|
| | min. | nom. | min. | nom. | | | |
| N42 | 12.8~13.2 | | ≥ 11.5 | | ≥ 12 | 40~43 | 80°C |
| N42M | 12.8~13.2 | | ≥ 12.0 | | ≥ 14 | 40~43 | 100°C |
| N42H | 12.8~13.2 | | ≥ 12.0 | | ≥ 17 | 40~43 | 120°C |
| N42SH | 12.8~13.2 | | ≥ 11.8 | | ≥ 20 | 40~43 | 150°C |
| N42UH | 12.8~13.2 | | ≥ 11.4 | | ≥ 25 | 40~43 | 180°C |
| N42EH | 12.8~13.2 | | ≥ 12.0 | | ≥ 29 | 40~43 | 200°C |
| N45 | 13.2~13.8 | | ≥ 11.0 | | ≥ 12 | 43~46 | 80°C |
| N45M | 13.2~13.8 | | ≥ 12.5 | | ≥ 14 | 43~46 | 100°C |
| N45H | 13.2~13.5 | | ≥ 12.0 | | ≥ 17 | 43~46 | 120°C |
| N45SH | 13.2~13.8 | | ≥ 12.6 | | ≥ 20 | 43~46 | 150°C |
| N45UH | 13.1~13.7 | | ≥ 12.5 | | ≥ 24 | 43~46 | 180°C |
| N48 | 13.8~14.2 | | ≥ 11.0 | | ≥ 11 | 46~49 | 80°C |
| N48M | 13.6~14.2 | | ≥ 12.8 | | ≥ 14 | 46~49 | 100°C |
| N48H | 13.6~14.3 | | ≥ 12.5 | | ≥ 16 | 46~49 | 120°C |
| N48SH | 13.6~14.3 | | ≥ 12.5 | | ≥ 19 | 45~49 | 150°C |
| N50 | 13.8~14.5 | | ≥ 10.8 | | ≥ 11 | 47~51 | 80°C |
| N50M | 14.0~14.5 | | ≥ 13.0 | | ≥ 14 | 47~51 | 100°C |
| N50H | 13.9~14.5 | | ≥ 13.0 | | ≥ 16 | 47~51 | 120°C |
| N52 | 14.2~14.8 | | ≥ 10.5 | | ≥ 11 | 49~53 | 80°C |
| N52M | 14.2~14.8 | | ≥ 12.5 | | ≥ 13 | 50~53 | 100°C |
| N55 | 14.6~15.3 | | ≥ 9.0 | | ≥ 11 | 52~56 | 80°C |

PRODUCT ADVANTAGE:

1. The Sintered NdFeB Magnet belongs to the rare earth alloy magnet group. It is made from Nd, Fe, B and other rare earth elements.
2. The NdFeB Magnet is known as the strongest magnetism with the highest energy product and coercive force.
3. It is very easily formed into various shapes, sizes by the cutting, drilling, grinding and wire cutting process. The popular shapes are for the disc, ring, square, sector and segment types as well as the custom made shapes.
4. Because of the high energy product, the NdFeB can be designed for the light weigh, smaller or thinner products for the electronic devices, mobile phones and the micro motors. The green power and the automotive industries also play the big roles of the current application for the NdFeB Magnet.

產品特點:

1. 釹鐵硼主要是由釹，鐵，硼及其他稀土元素所構成的金屬合金永久磁石。
2. 燒結釹鐵硼磁石是目前所知磁能積最高的永久磁石材料，高矯頑力也是本產品的特點之一。
3. 釹鐵硼磁石可透過專業的機械加工如切割、鑽孔、研磨及線圈割方式加工成不同的形狀及尺寸。比較常見的外型為圓片，環型，方塊，扇形，瓦型。另外異型的加工在合適的夾具及合適的工藝輔助下也是可行的，但不建議客戶將磁石自行做後續的加工，因塗層的破壞會產生產品的氧化。
4. 由於釹鐵硼的高磁能積特性，產品可設計於輕、薄、短、小的電子產品、手機及微小電機；近來綠能及汽車工業也是釹鐵硼磁石應用上的要角。

