

Nd-Fe-B 系 等方性 超高密度ボンド磁石

ハイドェンス®

Nd-Fe-B Ultrahigh Density Isotropic Bonded-magnet, HIDENSE®

PROTERIAL



小形モータのモア・パワーにお応えする 高性能Dyフリー永久磁石

If you use our bonded magnet "HIDENSE", the performance of small wattage motor will be higher.

製品外観 Sample



特長 Features

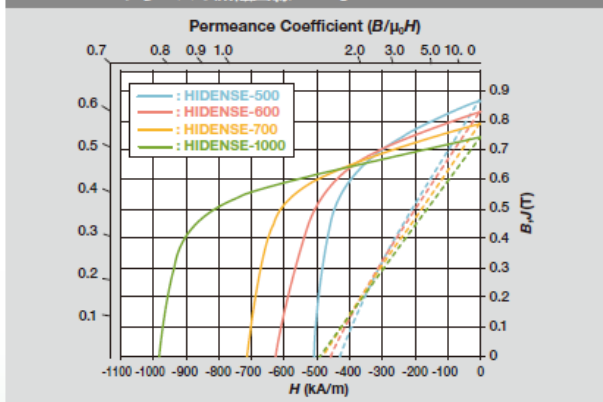
- 異方性ボンド磁石に匹敵する高磁気特性 ($Br \approx 0.9T$) を等方性磁石で実現
HIDENSE® magnet is isotropic bonded magnet with extremely high magnetic properties ($Br \approx 0.9T$), comparable with those of anisotropic bonded magnet.
- Nd系焼結磁石に比べて高い電気抵抗率 ($\approx 50\mu\Omega \cdot m$) を有し、渦電流損を大幅に低減してモータ低発熱化に寄与
With its high resistivity ($\approx 50\mu\Omega \cdot m$), HIDENSE® magnet can help you to suppress eddy current loss and reduce motor temperature rise.
- 等方性磁石の着磁制御性を活かし、モータ静音化や高効率化に大きく貢献
Utilizing isotropic HIDENSE® magnets, you can choose among various magnetizing patterns to improve acoustic noise or efficiency of your motor.

仕様 Specification

ハイドェンス®シリーズの磁気特性 HIDENSE® series magnetic properties [reference value]

材質 Material	残留磁束密度: Br Remanence		固有保磁力: H_{cJ} Coercivity		最大エネルギー積: (BH) max Maximum Energy Product		温度係数 [%/K] (293K-393K) Temperature coefficient	
	[mT]	[kG]	[kA/m]	[kOe]	[kJ/m²]	[MGOe]	α	β
HIDENSE-500	830-900	8.3-9.0	450-550	5.7-6.9	97-107	12.2-13.5	-0.10	-0.40
HIDENSE-600	790-860	7.9-8.6	550-650	6.9-8.2	97-107	12.2-13.5	-0.09	-0.38
HIDENSE-700	760-830	7.6-8.3	670-770	8.6-9.8	95-105	12.3-13.6	-0.10	-0.35
HIDENSE-1000	720-790	7.2-7.9	950-1050	11.9-13.2	87-97	10.9-12.2	-0.11	-0.31

HIDENSE®シリーズの減磁曲線 Demagnetization curve of HIDENSE® Series



HIDENSE®シリーズの熱減磁特性

Thermal demagnetization curve of HIDENSE® Series

