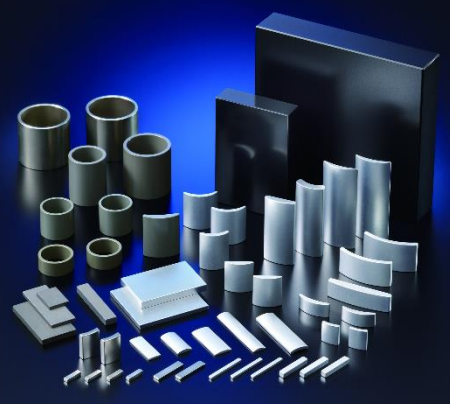
PROTERIAL

NEOMAX® の省重希土類技術

NEOMAX® with Heavy Rare-Earth Reduciton Technology

独自技術"M拡散TM"の適用で資源リスク軽減と高性能化を両立

Achieve high performance and resource risk reduction by applying Proterial's original "M-diffusion™" technology.



概 要

重希土類使用量を大幅に削減可能な技術”M拡散TM”により高性能化と資源リスク軽減の両立を実現

Establish "M-diffusion™ " technology, which enables a significant reduction in the use of heavy rare-earth, achieving both higher magnetic properties and further resource risk reduction.

用途

モーター
Motors

アクチュエーター
Actuators

発電機
Generators

特 長

独自技術”M拡散TM”を適用することで以下の特長を実現

Following features achieved by applying Proterial's original "M-diffusion™" technology.

■高い残留磁束密度と保磁力を両立
High remanence (B_r) and coercivity (H_{cJ})

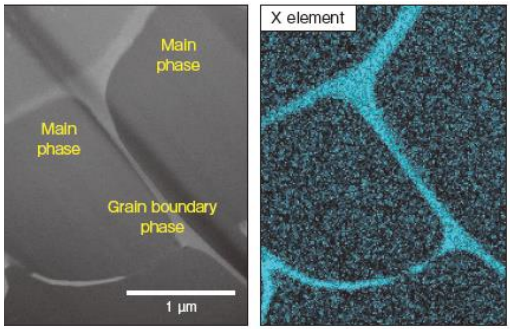
■重希土類量を大幅に削減*
Significant reduction of heavy rare-earth*

■磁石内の保磁力差を低減*
Reduction of coercivity distribution in an individual magnet*

*当社従来拡散材比
*Compared to our magnet applied conventional diffusion process.

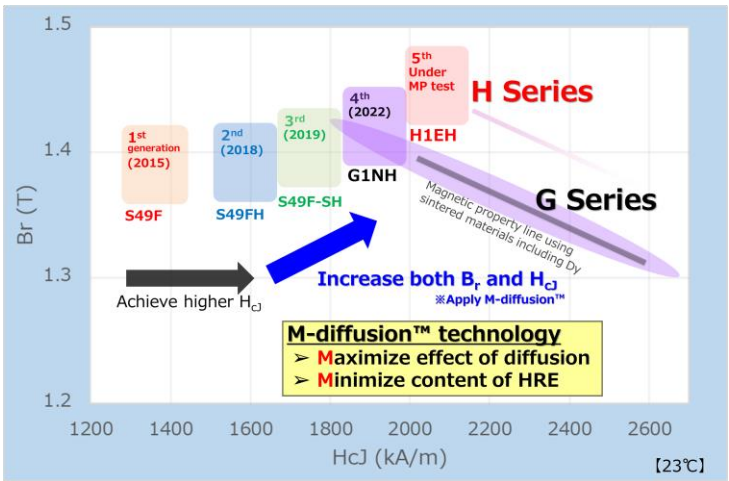
磁石断面組織と元素マップ(例)

Example of microstructure and X-element distribution



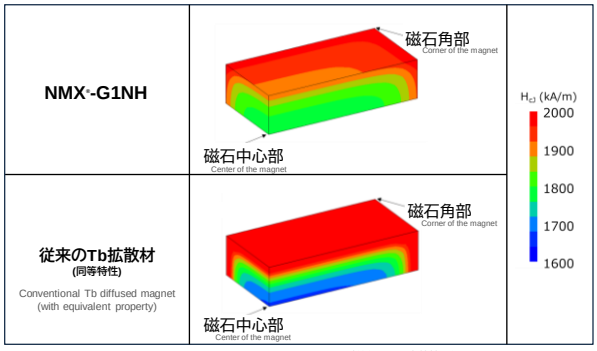
M拡散TM材の磁石特性

Magnetic properties of magnets with "M-diffusion™" technology



保磁力分布(計算例)

Simulation example of coercivity distribution within the magnets



※計算例であり本特性を保証するものではありません。
Examples of calculations and does not guarantee these properties.

磁石形状:5(磁化容易方向)×10×20 (mm)
Dimension of the magnet: 5(easy magnetization direction)×10×20 (mm)
実測データを用いて磁石の1/8の領域を計算
Calculation about one-eighth region of the magnets using actual magnetic properties.

問合せ窓口 株式会社プロテリアル 磁性材料事業部
東京都江東区豊洲5-6-36 豊洲プライムスクエア

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