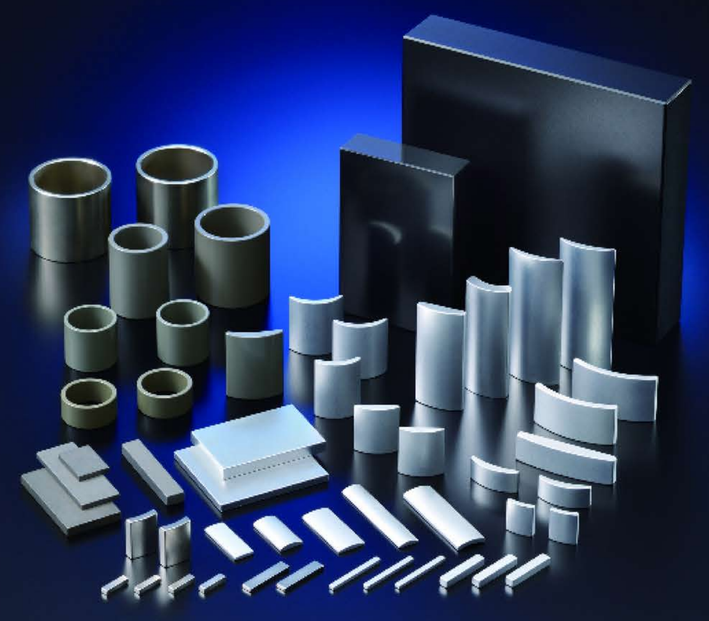
PROTERIAL

# NEOMAX® 省重稀土技术

## NEOMAX® with less Heavy Rare-Earth Technology

## 运用独创的“M渗透™”技术，实现资源风险的降低与产品性能的提升

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



### 概 要

**通过可以大幅削减重稀土使用量“M渗透™”技术，实现资源风险的降低和产品磁力特性的提升。**

Established technologies for "M-Diffusion™" with significant reduction of heavy rare-earth, which achieved both higher magnetic properties and further reduction of resource risk.

### 电机技术应用领域

用 途

- **马达** Motors
- **执行器** Actuators
- **发电机** Generators

### 特 点

**通过使用独创的“M渗透™”技术实现以下特点：**

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

- **■同时满足高剩磁和高内禀矫顽力的要求**
  High remanence ($B_r$) and coercivity ($H_{cJ}$)
- **■大幅削减重稀土的使用量***
  Significant reduction of heavy rare-earth*
- **■降低同一块磁体内部各部位之间的矫顽力差异***
  Reduction of coercivity difference in an individual magnet*

*和本公司常规渗透牌号的材比
*Compared to our magnet applied conventional diffusion process

### 磁体微观结构和元素分布(例)

Example of microstructure and X-element distribution

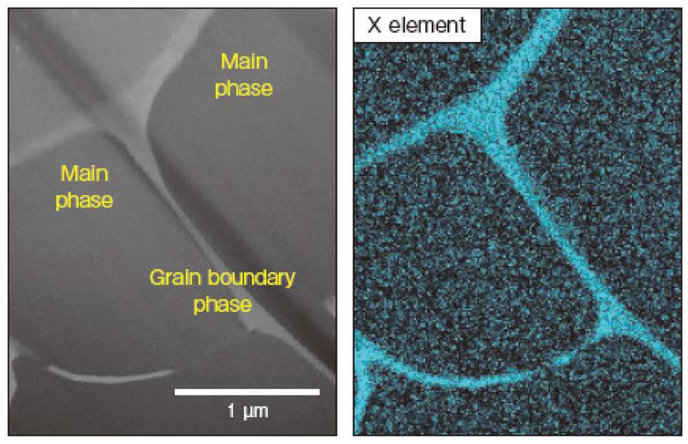
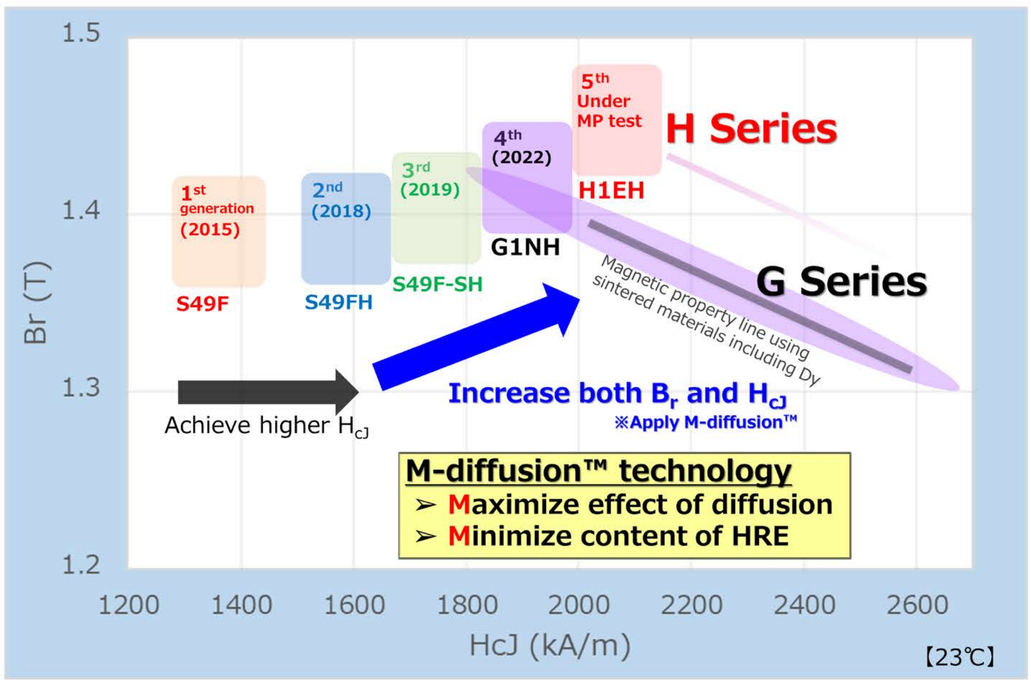



图1　烧结体截面组织结构和元素分布图
Fig. 1 Microstructure and X-element mapping

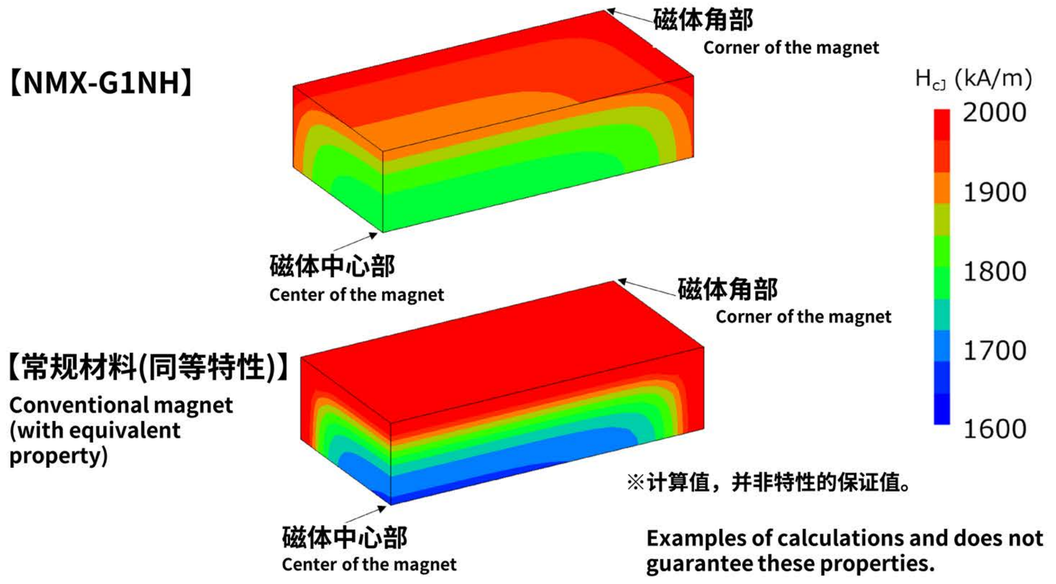
### M渗透材料的磁力特性

Magnetic properties of magnets applied "M-diffusion™" process (including forecast)




### 内禀矫顽力的分布（计算例）

Example of simulation about distribution of coercivity in the magnets




磁体形状：5(磁化容易方向)×10×20 (mm)
Dimension of the magnet： 5(easy magnetization direction)×10×20 (mm)

基于磁性能的实测数据在磁体的1/8区域进行计算
Calculation about one-eighth region of the magnets using actual magnetic properties


咨询窗口 | 博迈立铖投资(中国)有限公司

磁性材料部
上海市长宁路1133号长宁来福士广场T1写字楼1501室
总机：021-33663000