SUMITOMO METAL MINING CO., LTD
Advanced materials Div.
Applied powder materials business Unit.
Website https://crossmining.smm-g.com/

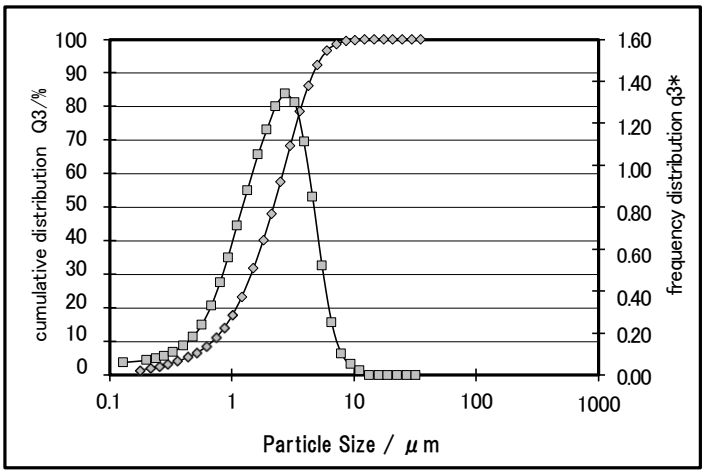
Each value is a typical value and may differ depending on the measurement environment and measurement method.

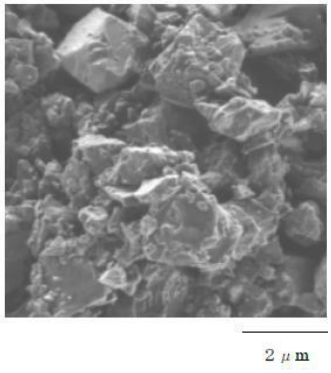
## ① Composition

(Typical values)

| Chemical name/ Generic name | Density (wt%) | Chemical symbol | CAS number |
|---|---|---|---|
| Iron | 74 | Fe | 7439-89-6 |
| Samarium | 23 | Sm | 7440-19-9 |
| Nitrogen | 3.0 | N | 7727-37-9 |

## ② Particle size distribution and appearance




Cumulative distribution Q3/%

Average particle size: 2～3μm

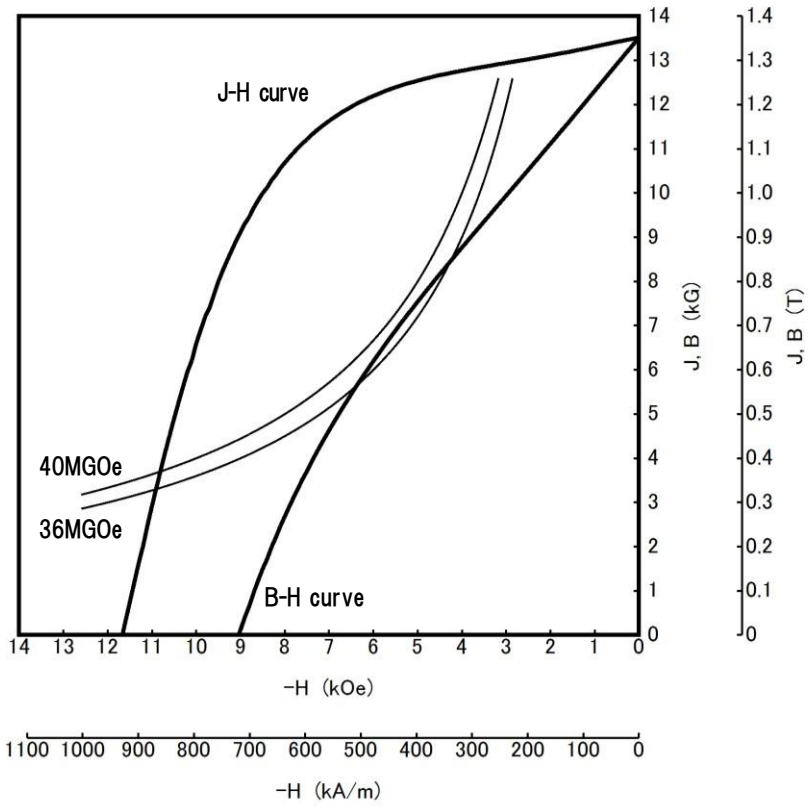
Hazardous information: Materials Class 2 (Flammable Solid) [in Japan]

＊Please contact us for details.

Properties

| Item code | | | | SFN-F |
|---|---|---|---|---|
| Magnetic properties | Residual induction | $B_r$ | T | 1.30 ≦ |
| | | | kG | 13.0 ≦ |
| | Intrinsic coercive force | $H_{cJ}$ | kA/m | 830 ≦ |
| | | | kOe | 10.5 ≦ |
| | Maximum energy product | $(BH)_{max}$ | $kJ/m^3$ | 280 ≦ |
| | | | MGOe | 36.0 ≦ |
| | Recoil permeability | $\mu_{rec}$ | - | 1.1 |
| | Reversible temperature coefficient | $\alpha_{Br}$ | %/K | -0.07 |
| | | $\alpha_{HcJ}$ | %/K | -0.5 |

② Demagnetizing curve




※ Measured by vibrating sample magnetometer