STANFORD MAGNETS

SmCo Magnets

Disc, Block, Ring,
Rod, Pot

Meets ISO 9001, ISO14001 Standard
Professional Technical Team
Quick Delivery

Sm1Co5
Sm2Co17
SmCo26

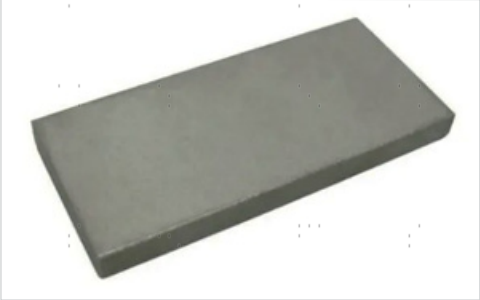
Advantages

- Strong Magnetic Strength
- High Temperature Resistance
- Stable Performance
- Reliable Performance Against Corrosion

Comparison of physical properties of sintered neodymium and Sm-Co magnets

Property (unit)	Neodymium	Sm-Co
Remanence (T)	1–1.5	0.8–1.16
Coercivity (MA/m)	0.875–2.79	0.493–2.79
Relative permeability (–)	1.05	1.05–1.1
Temperature coefficient of remanence (%/K)	–0.09..–0.12	–0.03..–0.05
Temperature coefficient of coercivity (%/K)	–0.40..–0.65	–0.15..–0.30
Curie temperature (°C)	310–370	700–850
Density (g/cm^3)	7.3–7.7	8.2–8.5
CTE, magnetizing direction (1/K)	(3–4)×10^{-6}	(5–9)×10^{-6}
CTE, normal to magnetizing direction (1/K)	(1–3)×10^{-6}	(10–13)×10^{-6}
Flexural strength (N/mm^2)	200–400	150–180
Compressive strength (N/mm^2)	1000–1100	800–1000
Tensile strength (N/mm^2)	80–90	35–40
Vickers hardness (HV)	500–650	400–650
Electrical resistivity (Ω·cm)	(110–170)×10^{-6}	(50–90)×10^{-6}

Samarium Cobalt (SmCo) Magnets






Samarium Cobalt (SmCo) Applications


Motors


Automotives


Aerospace


Medical


Semiconductor

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