

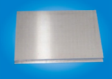

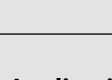
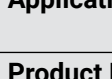





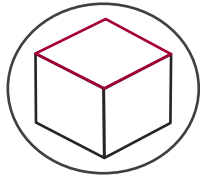
Materials for Power Devices and Electronic Components

# Rare Earth Materials



# Rare Earth Target Products

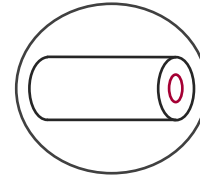
		Target					
Product Name		Gadolinium	Terbium	Dysprosium	Ytterbium	Yttrium	Other RE
<b>Formula</b>		Gd	Tb	Dy	Yb	Y	RE
      	RE	≥99.00 %	≥99.00 %	≥99.00 %	≥99.50 %	≥99.00 %	99 - 99,99 %
	TREM	≥99.9	≥99.9	≥99.9	≥99.9	≥99.9	Customizable
	Fe	≤0.05	≤0.05	≤0.05	≤0.01	≤0.10	
	Si	≤0.05	≤0.05	≤0.01	≤0.01	≤0.05	
	C	≤0.03	≤0.03	≤0.03	≤0.02	≤0.05	
	O	≤0.20	≤0.20	≤0.20	≤0.10	≤0.50	
	Mg	≤0.03	≤0.03	≤0.03	≤0.01	≤0.05	
<b>Application</b>		Permanent magnets, magnetic cooling, nuclear reactor control materials	Nd-Fe-B Permanent Magnet Materials	Nd-Fe-B Permanent Magnet Materials	Magnetostriction and alloy additives	Semiconductor coating	-
<b>Product Process</b>	Casting, Thermal Treatment, Machining						



Planar Target

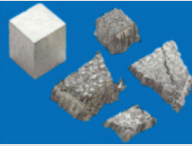



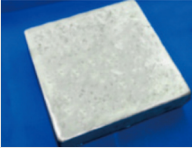

Special-Shaped Target



Rotary Target

# Scandium Series

Picture	Product Name	Formula	Purity	TRE	Feature	Application
	Scandium Metal	Sc	99.5 %	≥99.90	Distilled Lump or Dendritic Form	Aerospace, Electronic Industry, Nuclear Engineering, Superconducting Technology
			99.0 %	≥99.50		
	Scandium Oxide	Sc <sub>2</sub> O <sub>3</sub>	99.0 %	≥99.9 %	White powder	Metallurgy, Electric Luminaires, Optical Glass, Electronic Industry, Semiconductor Coating
			99.0 %	≥99.95 %		
			99.0 %	≥99.99 %		
			99.0 %	≥99.999 %		
	High Purity Sc Oxide	Sc <sub>2</sub> O <sub>3</sub>	99.99 %	≥99.9995 %		

Picture	Product Name	Formula	Proportion	Sc (%)	Al (%)	Sc/RE (%)	Feature	Application
	Al-Sc Alloy	Al-Sc	Al: 80 % Sc: Sc %	20 ± 0.5	80 ± 0.5	≥99.99	Lump or Plate Alloy	Aerospace, Transportation Conveyer etc.
			Al: 98 % Sc: 2 %	2 ± 0.1	98 ± 0.1	≥99.99		
	Al-Sc-Zr Alloy	Al-Sc-Zr	Al: 75 % Sc: 20 % Zr: 5 %	20 ± 0.5	75 ± 0.5	5 ± 0.5	Lump or Plate Alloy	Aerospace, Transportation Conveyer etc.
			Al: 95 % Sc: 5 % Zr: 5 %	5 ± 0.5	90 ± 0.5	5 ± 0.5		

