

Samarium

High Purity Metal

Characteristics

- ✓ Paramagnetic at room temperature
- ✓ Physical properties like hardness
- ✓ Volatile elements
- ✓ Ductile and malleable
- ✓ Good conductivity
- ✓ Magnetic properties

Quick Facts

Molecular Formula	:	Sm
Molecular Weight	:	150.36g/mol
Density	:	7.35g/cm ³
Melting Point	:	1072°C
Boiling Point	:	1803°C
Thermal Conductivity	:	0.165W/(mK)
Electrical Resistivity	:	88.0 nΩm (at 20 °C)
Thermal Expansion	:	12.7μm/(mK) (at 25 °C)
Young's Modulus	:	49.7GPa
Specific Heat	:	0.043Cal/g/K @ 25 °C

Purity : 99.5%

Samarium is a chemical element with the symbol Sm and atomic number 62. Samarium is a silvery-white metal belonging to the lanthanide group of the periodic table. It is relatively stable at room temperature in dry air, but it ignites when heated above 150 C and forms an oxide coating in moist air. It is one of the most volatile elements among the lanthanides. Samarium and its compounds are paramagnetic at room temperature.

Benefits

- ✓ Crafting & metal working applications to exhibition displays
- ✓ Uses in the glass
- ✓ Ceramics and electronics industries
- ✓ Manufacture of permanent magnets
- ✓ Manufacture of solar-powered electric aircrafts
- ✓ Used in making special infrared absorbing glass and cores of carbon arc lamp electrodes.
- ✓ Used in making new permanent magnets

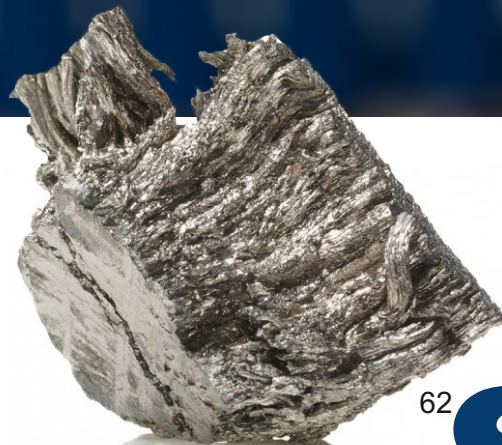
High Purity Samarium

Available in:

Pieces | Rods | Shots | Chips | Pellets | Wires | Ingots | Bars | Granules



ISO 9001:2015
CERTIFIED COMPANY



62
Sm
150.36

INTELLIGENT MATERIALS PVT LTD

Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED

Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

NANOSHEL LLC

3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911

