NANOSHEL
Creating Miracles in Black

Samarium
High Purity Metal

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.

Characteristics

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

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

Quick Facts

Molecular Formula	:	Sm
Molecular Weight	:	150.36g/mol
Density	:	7.35g/cm3
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%

62
Sm
150.36

High Purity
Smarium
Available in:

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

CE 20ZICE4589C
GMP 19ZAZGO1274G
ISO 14385:2016 CERTIFIED 20ZICE4588M
ISO 9001:2015 CERTIFIED COMPANY

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