

Europium

High Purity Metal

Characteristics

- ✓ Very Ductile
- ✓ Lowest melting point
- ✓ Lowest density

Quick Facts

Molecular Formula	:	Eu
Molecular Weight	:	151.97g/mol
Density	:	5.77g/cm ³
Melting Point	:	826°C
Boiling Point	:	1527 °C
Thermal Conductivity	:	0.139W/(mK)
Electrical Resistivity	:	90.9μΩcm (at 20 °C)
Thermal Expansion	:	35.0μm/(mK) (at 25 °C)
Young's Modulus	:	18.2GPa
Specific Heat	:	0.0421 Cal/g/K @ 25 °C

Purity : 99.99%

Europium is a chemical element with the symbol Eu and atomic number 63. Europium is one of the least abundant elements in the universe, with only about 5×10⁻⁸% in the entire universe. Europium is a silvery-white rare earth belonging to the lanthanide group. The metal's hardness is comparable to that of lead and it is very ductile. Europium, the most reactive of the rare earth metals, quickly oxidizes in air and resembles calcium in its reactions with water.

Benefits

- ✓ Used in the printing of euro banknotes
- ✓ Used in manufacture of fluorescent glass
- ✓ Europium-doped plastic is used as a laser material.
- ✓ Europium-doped plastic is used in making thin super-conducting alloys.
- ✓ Europium salts are used for newer phosphorescent powder and paints.
- ✓ Europium is used as excellent absorber of neutrons, making it valuable in control rods for nuclear reactors



High Purity
Europium
Available in:

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



202ICE4588C



19ZAZG01274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

63
Eu
151.97

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

