

EUROPIUM

Nanopowder

Europium is a chemical element with the symbol Eu and atomic number 63. Europium is one of the rarest elements of the rare earth metal groups. Due to the reactive nature of the element, it is not found as a free component in nature, but only in compounds. There are many minerals that contain low concentrations of europium micron powder, of which monazite is the prominent one. Europium is silver-gray, with a hardness alike to that of lead, quite ductile and quite reactive. Europium is produced from monazite sand, which is a mix of calcium phosphates, cerium thorium, and other rare earth elements. Europium is used in color television tubes as an activator of phosphorescent substances, and also in nuclear reactors.



Quick Facts

Product	: Europium Nanopowder
Stock No	: NS6130-12-001145
CAS	: 7440-53-1
Color	: Silvery Grey
Form	: Powder

TECHNICAL Specification

APS	: 80-100nm
Purity	: 99.9%
Molecular Weight	: 151.97 g/mol
Density	: 5.2g/cm ³
Melting Point	: 826°C

APPLICATIONS

- ✓ Europium is used in manufacture of fluorescent glass.
- ✓ Europium is used as excellent absorber of neutrons, making it valuable in control rods for nuclear reactors.
- ✓ Europium-doped plastic is used as a laser material.
- ✓ Europium is a neutron adsorber, , so it is used in nuclear reactors control rods
- ✓ Europium is used for newer phosphorescent powder and paints.



202ICE4589C



18ZAZG01274G



202ICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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

APS
80-100nm

PURITY
99.9%



Packing Sizes:





25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

INTELLIGENT MATERIALS PVT LTD
Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252



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