

Technical Data Sheet



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Yttrium oxide

Product Identification

Product name : Yttrium oxide
Chemical Formula : Y_2O_3
CAS No. : 1314-36-9

Physical and Chemical Properties

Property	Value / Description
Purity	99.99% min
Physical State	Powder
Color	White
Density	Approximately 5.01 g/cm ³
Melting Point	2400 °C
Solubility in Water	Insoluble (0.7 mg/l (20°C, pH: 6.8~7.1))
Stability	Chemically stable; low volatility
Reactivity	Soluble in dilute acids, insoluble in alkalis

Applications

Phosphors for color television tubes and LED displays, optical coatings, microwave filters, manufacturing of Eu:YVO₄ and Eu:Y₂O₃ phosphors, gas mantles, acetylene lights, refractory stabilizer, electronic ceramics, transparent ceramics, laser materials, high-temperature coatings, and component in Yttrium-Iron-Garnets

Packing

25kg net in sealed containers

Shipping Regulations

Not subject to transport regulations

Safety Information

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.