

GADOLINIUM OXIDE Gd₂O₃

Properties

White to beige powder

Application

- Host lattice for phosphors
- Manufacture of fluorescent powders
- Single crystals in the electronic industry as a substrate for storing information
- Manufacture of special optical glass with a high refractive index
- Control rods in nuclear reactors
- Plants for processing radio active waste
- Pharmaceutical diagnostics
- Radiation protection



Chemical analysis

		99,99 %
Material base		
TREO*		min. 99,0 %
L.O.I., 1000°C		max. 1,0 %
Fe ₂ O ₃		< 10 ppm
CaO		< 20 ppm
Co ₃ O ₄		< 5 ppm
Cr ₂ O ₃		< 5 ppm
TREO base		
Gd ₂ O ₃		min. 99,99 %
Total remaining RE-Oxides		max. 100 ppm

*TREO = Total Rare Earth Oxide

Physical parameter

PSD d50	(Microtrac)	typ. 2-10 μ
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Packing

- Plastic boxes with 1, 5 or 10 kgs net
- Plastic or steeldrums with 25 kgs resp. 50 kgs net
- BigBags with 500 resp. 1.000 kgs net
- Other packing on request