

LANTHANUM OXIDE *La2O3*

Properties

Fine powder, white to grey

Application

- Manufacture of phosphors
- Increasing the refractive index and reducing light dispersion in glass
- Manufacture of optical glass and glass fibre
- Non-conductive ceramics, such as capacitors
- Conductive ceramics, such as heating resistors for furnaces
- Catalysts components, e.g. for cracking crude oil



Chemical analysis

	99,0 %	99,9 %	99,995 %
Material base			
TREO*	min. 95,0 %	min. 99,0 %	min. 99,0 %
L.O.I., 1000°C	max. 5,0 %	max. 1,0 %	max. 1,0 %
Fe ₂ O ₃	< 0,10 %	< 250 ppm	< 5 ppm
CaO	< 0,40 %	< 0,15 %	< 60 ppm
Cr ₂ O ₃	-	-	< 10 ppm
NiO	-	-	< 10 ppm
CuO	-	-	< 10 ppm
Co ₃ O ₄	-	-	< 10 ppm
TREO base			
La ₂ O ₃	min. 99,0 %	min. 99,9 %	min. 99,995 %
Total remaining RE-Oxides	max. 1,0 %	max. 0,1 %	max. 50 ppm

*TREO = Total Rare Earth Oxide

Physical parameters

PSD d50	(Microtrac)	typ. 20 – 30 µm
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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