



Chem-Metals & Rare Earth

■ Lanthanum Oxide



High Purity Lanthanum Oxide
is insoluble in water and soluble in acid. It is mainly used for producing precision optical glass, fiber optical, prism for camera and microscope, and also used as catalyst and dopant.

Formula	La ₂ O ₃
Appearance	White Powder
Molecular weight	325.81
Density	6.51g/cm ³
Melting Point	2217°C
CAS No.	1312-81-8

No.	Item	Standard Specification	
1	La ₂ O ₃ /REO ≥	99.999%	
2	REO ≥	99.0%	
3	Impurity PPM Max each	REO Impurity/REO	CeO ₂ /Nd ₂ O ₃ /Eu ₂ O ₃ /Tb ₄ O ₇ /Pr ₆ O ₁₁ /Dy ₂ O ₃ 1 Ho ₂ O ₃ /Er ₂ O ₃ /Tm ₂ O ₃ /Yb ₂ O ₃ /Lu ₂ O ₃ /Sm ₂ O ₃ 1
		Other	Fe ₂ O ₃ 2, SiO ₂ 20, CaO 5, Cl ⁻ 100
4	Packing	10/25kgs in plastic bags with vacuum package	

■ Lutetium Oxide



High Purity Lutetium Oxide, white powder, is insoluble in water, but soluble in acid. It is used in the manufacture of special alloy, LED powder, permanent magnet material and additive etc.

Formula	Lu ₂ O ₃
Appearance	White Powder
Molecular weight	397.93
Density	9.42g/cm ³
Melting Point	2510°C
CAS No.	12032-20-1

No.	Item	Standard Specification	
1	Lu ₂ O ₃ /REO ≥	99.995%	99.999%
2	REO ≥	99.0%	99.0%
3	REO Impurity/REO Max	0.005%	0.001%
4	Other Impurity Max	Fe ₂ O ₃	0.0002%
		SiO ₂	0.002%
		CaO	0.002%
		Cl ⁻	0.02%
5	Packing	10kgs in plastic bags with vacuum package	