HALBLEITER MATERIAL

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Technical Data Sheet

Lanthanum Oxide Powder

Product ID:	**570800PD001 - 570800PD003**		
Formular:	La_2O_3	**Molecular weight:**	325.81 g/mol
CAS No.:	1312-81-8	**EINECS No.:**	215-200-5
Color:	White		
Description:	Our lanthanum oxide powder has a purity of ≥99.95% REO, with higher purities and various particle sizes available, and features high chemical stability as well as excellent optical and electrical properties.		
Application:	Optical glass, catalysts, electronic materials, and advanced functional ceramics.		
Product Image:			

1. Sizes

Product ID	Formula	Size
570800PD001	La_2O_3 (99.95% REO)	/
570800PD002	La_2O_3 (99.99%REO)	/
570800PD003	La_2O_3 (99.999% REO)	/

2. Chemical compositions

	Chemical Compositions (wt%)			
Main Content	TREO ≥98%, La_2O_3/TREO ≥99.95%			
RE Impurities (wt%)				
Ce_2O_3	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Y_2O_3
≤ 0.01	≤ 0.002	≤ 0.002	≤ 0.001	≤ 0.001
Non-RE Impurities (wt%)				
CaO	Fe_2O_3	SiO_2		
≤ 0.1	≤ 0.05	≤ 0.1		

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Main Content		TREO ≥99%, La_2O_3/TREO ≥99.99%		
RE Impurities (wt%)				
Ce_2O_3	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Y_2O_3
≤ 0.003	≤ 0.0015	≤ 0.0015	≤ 0.0015	≤ 0.001
Non-RE Impurities (wt%)				
CaO	Fe_2O_3	SiO_2		
≤ 0.005	≤ 0.005	≤ 0.01		
Main Content		TREO ≥99%, La_2O_3/TREO ≥99.999%		
RE Impurities (wt%)				
Ce_2O_3	Pr_6O_{11}	Nd_2O_3	Sm_2O_3	Y_2O_3
≤ 0.0001	≤ 0.00005	≤ 0.00005	≤ 0.0001	≤ 0.00005
Non-RE Impurities (wt%)				
CaO	Fe_2O_3	SiO_2		
≤ 0.001	≤ 0.001	≤ 0.005		

Note: The purity values shown are calculated by subtracting the sum of selected measured elemental impurities from 100%. These values do not represent the result of a full elemental analysis.

3. Packaging

Bottled/Bag.
Double vacuum packaging.
Customizable packaging is available upon request.

4. Period of Validity

It is recommended to use this product within 12 months (stored under proper conditions). If it is overdue, the product quality status should be re-evaluated.

5. Handling and Storage

When using, wear protective equipment and operate in a well-ventilated area to avoid inhalation or contact with dust.

Store in a tightly sealed container in a cool, dry place away from acids and humidity.

Contact Us

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