

Technical Data Sheet

Samarium oxide Powder

Product ID: 620800PD001

Formular: Sm₂O₃

Molecular weight: 348.72 g/mol

CAS No.: 12060-58-1

EINECS No.: 235-043-6

Color: Light yellow

Description: Our samarium oxide typically has a purity of ≥99.9% (REO), with higher purities and customized particle sizes available upon request, featuring excellent optical and magnetic properties as well as good thermal and chemical stability.

Application: Laser materials, optical devices, high-performance ceramics, magnetic materials, etc.

Product

Image:



1. Sizes

Product ID	Formular	Size
620800PD001	Sm ₂ O ₃ (99.9% Sm ₂ O ₃ /TREO)	D50 < 20μm
620800PDDZ	Sm ₂ O ₃ (99.9% Sm ₂ O ₃ /TREO)	Customized

2. Chemical compositions

Chemical Compositions (ppm)				
Main Content		TREO ≥99%, Sm ₂ O ₃ /TREO ≥99.9%		
RE Impurities (ppm)				
La ₂ O ₃	Pr ₆ O ₁₁	Gd ₂ O ₃	Tm ₂ O ₃	Yb ₂ O ₃
≤ 100	≤ 50	≤ 50	≤ 100	≤ 50
Non-RE Impurities (ppm)				
CaO	Fe ₂ O ₃	SiO ₂	Cl ⁻	
≤ 80	≤ 15	≤ 100	≤ 850	

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 packed.

4. Period of Validity

It is recommended to use this product within 12 months. If it is overdue, the product quality status should be re-evaluated.

5. Handling and Storage

When using, wear protective equipment (e.g., mask, goggles, and gloves) and operate in a well-ventilated area to avoid inhalation or contact with dust.

Store in a cool, dry, and tightly sealed container, away from moisture and contaminants.

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