

Technical Data Sheet

Terbium Oxide Powder

Product ID:	650800PD001		
Formular:	Tb ₄ O ₇	Molecular weight:	747.69 g/mol
CAS No.:	12037-01-3	EINECS No.:	234-856-3
Color:	Dark brown		
Description:	Our terbium oxide powder has a purity of 99.99% Tb ₄ O ₇ /REO and features high purity, excellent thermal stability, and outstanding luminescent and magnetic properties.		
Application:	Phosphor materials, magneto-optical devices, high-performance functional ceramics, etc.		

**Product
Image:**



1. Sizes

Product ID	Formular	Size
650800PD001	Tb ₄ O ₇ (99.99% Tb ₄ O ₇ /TREO)	/

2. Chemical compositions

Chemical Compositions (ppm)				
Main Content		TREO ≥99%, Tb ₄ O ₇ /TREO ≥99.99%		
RE Impurities (ppm)				
La ₂ O ₃	Gd ₂ O ₃	Dy ₂ O ₃	Tm ₂ O ₃	Lu ₂ O ₃
≤ 5	≤ 10	≤ 10	≤ 5	≤ 10
Non-RE Impurities (ppm)				
CaO	Fe ₂ O ₃	SiO ₂	Al ₂ O ₃	
≤ 20	≤ 20	≤ 40	≤ 20	

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 moisture, acids, and corrosive substances.

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