

## Technical Data Sheet

# Ytterbium oxide Powder

<b>Product ID:</b>	700800PD001 / 700800PD002		
<b>Formular:</b>	Yb <sub>2</sub> O <sub>3</sub>	<b>Molecular weight:</b>	394.08 g/mol
<b>CAS No.:</b>	1314-37-0	<b>EINECS No.:</b>	215-234-0
<b>Color:</b>	White		
<b>Description:</b>	Our ytterbium oxide typically has a purity of ≥99.99% REO, with higher purity available upon request. It exhibits excellent optical and electrical properties.		
<b>Application:</b>	Optical materials, electronic materials, catalysts, functional ceramics, etc.		

**Product  
Image:**



### 1. Sizes

Product ID	Formular	Size
700800PD001	Yb <sub>2</sub> O <sub>3</sub> (99.99% REO)	D50 < 20 µm
700800PD002	Yb <sub>2</sub> O <sub>3</sub> (99.999% REO)	D50 < 20 µm
700800PD4NDZ	Yb <sub>2</sub> O <sub>3</sub> (99.99% REO)	Customized
700800PD5NDZ	Yb <sub>2</sub> O <sub>3</sub> (99.999% REO)	Customized

### 2. Chemical compositions

	Chemical Compositions (ppm)						
	CaO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Cl <sup>-</sup>	L.O.I		
TREO ≥99%	≤ 120	≤ 10	≤ 55	≤ 220	≤ 1%		
Yb <sub>2</sub> O <sub>3</sub> /TREO ≥99.99%	La <sub>2</sub> O <sub>3</sub>	CeO <sub>2</sub>	Nd <sub>2</sub> O <sub>3</sub>	Sm <sub>2</sub> O <sub>3</sub>	Gd <sub>2</sub> O <sub>3</sub>	Tm <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>
	≤ 5	≤ 5	≤ 5	≤ 25	≤ 10	≤ 20	≤ 20
TREO ≥99%	CaO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Cl <sup>-</sup>	L.O.I		
	≤ 15	≤ 5	≤ 15	≤ 200	≤ 0.5%		
Yb <sub>2</sub> O <sub>3</sub> /TREO ≥99.999%	La <sub>2</sub> O <sub>3</sub>	CeO <sub>2</sub>	Nd <sub>2</sub> O <sub>3</sub>	Sm <sub>2</sub> O <sub>3</sub>	Gd <sub>2</sub> O <sub>3</sub>	Tm <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>
	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 2	≤ 2

\* L.O.I: Loss on Ignition

*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 and operate in a well-ventilated area to avoid inhalation or contact with dust.

Store in a sealed container in a cool, dry place to prevent moisture and contamination.

### **Contact Us**

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