

## Technical Data Sheet

# Cerium oxide Granules

**Product ID:** 580800GN001 / 580800GN002

**Formular:** CeO<sub>2</sub>

**Molecular weight:** 172.11 g/mol

**CAS No.:** 1306-38-3

**EINECS No.:** 215-150-4

**Color:** Light yellow

**Description:** Our cerium oxide granules have a purity of ≥99.99% REO and can be customized to higher purities and different particle sizes upon request, offering excellent catalytic performance, high oxygen storage capacity, and superior optical and electrical properties.

**Application:** Catalysts, polishing materials, fuel cells, and advanced functional materials.

**Product**



**Image:**

### 1. Sizes

Product ID	Formular	Size
580800GN001	CeO <sub>2</sub> (99.99% CeO <sub>2</sub> /TREO)	3 mm - 6 mm
580800GN002	CeO <sub>2</sub> (99.999% CeO <sub>2</sub> /TREO)	1 mm - 3 mm
580800GN4NDZ	CeO <sub>2</sub> (99.99% CeO <sub>2</sub> /TREO)	Customized
580800GN5NDZ	CeO <sub>2</sub> (99.999% CeO <sub>2</sub> /TREO)	Customized

### 2. Chemical compositions

Chemical Compositions (ppm)						
Main Content		TREO ≥99%, CeO <sub>2</sub> /TREO ≥99.99%				
RE Impurities (ppm)						
La <sub>2</sub> O <sub>3</sub>	Pr <sub>6</sub> O <sub>11</sub>	Nd <sub>2</sub> O <sub>3</sub>	Sm <sub>2</sub> O <sub>3</sub>	Eu <sub>2</sub> O <sub>3</sub>	Gd <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>
≤ 10	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
Non-RE Impurities (ppm)						
CaO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>				
≤ 50	≤ 100	≤ 50				

Main Content		TREO ≥99%, CeO <sub>2</sub> /TREO ≥99.999%				
RE Impurities (ppm)						
La <sub>2</sub> O <sub>3</sub>	Pr <sub>6</sub> O <sub>11</sub>	Nd <sub>2</sub> O <sub>3</sub>	Sm <sub>2</sub> O <sub>3</sub>	Eu <sub>2</sub> O <sub>3</sub>	Gd <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>
≤ 2	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1
Non-RE Impurities (ppm)						
CaO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>				
≤ 20	≤ 50	≤ 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 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 clean, dry environment.

Store in sealed containers in a cool, dry place, protected from moisture and contaminants.

### Contact Us

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