

Technical Data Sheet

Cerium oxide Granules

Product ID: 580800GN001 / 580800GN002

Formular: CeO₂

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 ₂ (99.99% CeO ₂ /TREO)	3 mm - 6 mm
580800GN002	CeO ₂ (99.999% CeO ₂ /TREO)	1 mm - 3 mm
580800GN4NDZ	CeO ₂ (99.99% CeO ₂ /TREO)	Customized
580800GN5NDZ	CeO ₂ (99.999% CeO ₂ /TREO)	Customized

2. Chemical compositions

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

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

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