

## Technical Data Sheet

# Neodymium Oxide Powder

**Product ID:** 600800PD001 / 600800PD002  
**Formular:** Nd<sub>2</sub>O<sub>3</sub> **Molecular weight:** 336.48 g/mol  
**CAS No.:** 1313-97-9 **EINECS No.:** 215-214-1  
**Color:** Light blue  
**Description:** Our neodymium oxide is available in 99.9% and 99.995% (REO) purity grades and can be customized according to customer requirements. It offers high magneto-optical activity and excellent rare-earth luminescence performance.  
**Application:** High-performance permanent magnets, optical materials, specialty glass, and advanced electronic components.

**Product Image:**



### 1. Sizes

Product ID	Formular	Size
600800PD001	Nd <sub>2</sub> O <sub>3</sub> (99.9% REO)	D50 < 20 µm
600800PD002	Nd <sub>2</sub> O <sub>3</sub> (99.995% REO)	D50 < 20 µm

### 2. Chemical compositions

Chemical Compositions (ppm)				
Main Content		TREO ≥99%, Nd <sub>2</sub> O <sub>3</sub> /TREO ≥99.9%		
RE Impurities (ppm)				
La <sub>2</sub> O <sub>3</sub>	CeO <sub>2</sub>	Pr <sub>6</sub> O <sub>11</sub>	Sm <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>
≤ 200	≤ 150	≤ 150	≤ 50	≤ 50
Non-RE Impurities (ppm)				
CaO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>		
≤ 150	≤ 300	≤ 300		

Main Content				
TREO ≥99%, Nd <sub>2</sub> O <sub>3</sub> /TREO ≥99.995%				
RE Impurities (ppm)				
La <sub>2</sub> O <sub>3</sub>	CeO <sub>2</sub>	Pr <sub>6</sub> O <sub>11</sub>	Sm <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>
≤ 10	≤ 20	≤ 20	≤ 20	≤ 5
Non-RE Impurities (ppm)				
CaO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>		
≤ 10	≤ 5	≤ 10		

*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 it in tightly sealed containers in a cool, dry place away from humidity and contamination sources.

### Contact Us

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