

## Technical Data Sheet

# Neodymium Oxide Sputtering Target

**Product ID:** 600800ST001 - 600800ST003  
**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 purple  
**Description:** Our neodymium oxide sputtering targets have a purity of ≥99.5% REO and can be customized to higher purities and different sizes upon request, offering high density, stable film deposition performance, and excellent magnetic and optical properties.  
**Application:** Magnetic, optical, and electronic functional materials.

**Product Image:**



### 1. Sizes

Product ID	Formular	Size
600800ST001	Nd <sub>2</sub> O <sub>3</sub> (99.5% REO)	Ø 76.2 mm x 3.175 mm
600800ST002	Nd <sub>2</sub> O <sub>3</sub> (99.5% REO)	Ø 76.2 mm x 6.35 mm
600800ST003	Nd <sub>2</sub> O <sub>3</sub> (99.99% REO)	Ø 101.6 mm x 6.35 mm
600800ST2N5DZ	Nd <sub>2</sub> O <sub>3</sub> (99.5% REO)	Customized
600800ST4NDZ	Nd <sub>2</sub> O <sub>3</sub> (99.99% REO)	Customized

### 2. Chemical compositions

Chemical Compositions (ppm)				
Main Content		TREO ≥99%, Nd <sub>2</sub> O <sub>3</sub> /TREO ≥99.5%		
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>
≤ 500	≤ 200	≤ 400	≤ 200	≤ 200

Non-RE Impurities (ppm)				
CaO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	
≤ 300	≤ 200	≤ 300	≤ 200	
Main Content		TREO ≥99%, Nd <sub>2</sub> O <sub>3</sub> /TREO ≥99.99%		
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>
≤ 5	≤ 5	≤ 20	≤ 5	≤ 5
Non-RE Impurities (ppm)				
CaO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	
≤ 100	≤ 50	≤ 50	≤ 50	

*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

Carton/wooden box outer bag.  
Double vacuum inner bag.

### 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 a dust mask, ensure proper ventilation, avoid inhalation or skin/eye contact.

Stored in a cool, dry and well-ventilated area, and follow proper procedures for disposal and cleaning to maintain material integrity and safety.

### Contact Us

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