

## Technical Data Sheet

# Yttrium oxide Sputtering Target

**Product ID:** 390800ST001 - 390800ST004

**Formular:** Y<sub>2</sub>O<sub>3</sub>

**Molecular weight:** 225.81 g/mol

**CAS No.:** 1314-36-9

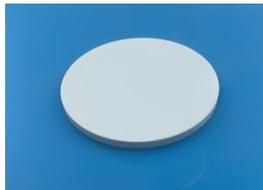
**EINECS No.:** 215-233-5

**Color:** White

**Description:** Our yttrium oxide sputtering targets feature a purity of ≥99.99% REO, can be customized to various dimensions according to specific requirements, and offer excellent chemical stability and superior resistance to plasma corrosion.

**Application:** Semiconductor manufacturing, optical coating, flat panel display production, and advanced functional thin film deposition

**Product  
Image:**



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### 1. Sizes

Product ID	Formular	Size
390800ST001	Y <sub>2</sub> O <sub>3</sub> (99.99% REO)	Ø 50.8 mm x 3.175 mm
390800ST002	Y <sub>2</sub> O <sub>3</sub> (99.99% REO)	Ø 50.8 mm x 6.35 mm
390800ST003	Y <sub>2</sub> O <sub>3</sub> (99.99% REO)	Ø 76.2 mm x 3.175 mm
390800ST004	Y <sub>2</sub> O <sub>3</sub> (99.99% REO)	Ø 203.2 mm x 6.35 mm
4000ST4NDZ	Y <sub>2</sub> O <sub>3</sub> (99.99% REO)	Customized

## 2. Chemical compositions

Chemical Compositions (ppm)						
Main Content			TREO $\geq$ 99%, Y <sub>2</sub> O <sub>3</sub> /TREO $\geq$ 99.99%			
RE Impurities (ppm)						
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>	Pr <sub>6</sub> O <sub>11</sub>	Gd <sub>2</sub> O <sub>3</sub>	Eu <sub>2</sub> O <sub>3</sub>
$\leq$ 10	$\leq$ 5	$\leq$ 5	$\leq$ 10	$\leq$ 10	$\leq$ 5	$\leq$ 10
Non-RE Impurities (ppm)						
CaO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>				
$\leq$ 100	$\leq$ 50	$\leq$ 150				

*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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