

Technical Data Sheet

Yttria-Stabilized Zirconia (YSZ) Sputtering Target

Product ID: 3908400800ST001 - 3908400800ST007

Formular: $\text{Y}_2\text{O}_3\text{-ZrO}_2$

Molecular weight: 198.14 g/mol

CAS No.: 114168-16-0

EINECS No.: /

Color: White

Description: Our YSZ sputtering target is available in standard compositions such as 3YSZ and 8YSZ, and can also be customized to different yttria ratios according to specific requirements. It offers excellent ionic conductivity, high thermal stability, and superior film uniformity.

Application: Solid oxide fuel cells, oxygen sensors, optical coatings, etc.

Product

Image:



1. Sizes

Product ID	Formular	Particle Size
3908400800ST001	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (3%mol Y_2O_3)	Ø 76.2 mm x 3.175 mm
3908400800ST002	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (8%mol Y_2O_3)	Ø 50.8 mm x 3.175 mm
3908400800ST003	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (3%mol Y_2O_3)	Ø 76.2 mm x 3.175 mm
3908400800ST004	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (8%mol Y_2O_3)	Ø 76.2 mm x 6.35 mm
3908400800ST005	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (3%mol Y_2O_3)	Ø 101.6 mm x 3.175 mm
3908400800ST006	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (8%mol Y_2O_3)	Ø 101.6 mm x 6.35 mm
3908400800ST007	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (8%mol Y_2O_3)	Ø 203.2 mm x 6.35 mm
3908400800STDZ	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (other mol Y_2O_3)	Customized

2. Chemical compositions

Element Typical Value Purity	Chemical Composition (ppm)					
	Mn	Cu	Mo	Cr	K	Na
99.9%	≤ 100	≤ 300	≤ 100	≤ 100	≤ 80	≤ 80
99.95%	≤ 50	≤ 150	≤ 50	≤ 30	≤ 30	≤ 30

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 appropriate protective equipment to avoid dust inhalation or contact and operate in a well-ventilated area.

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

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