

Technical Data Sheet

Yttria-Stabilized Zirconia (YSZ) Granules

Product ID: 3908400800GN001 / 3908400800GN002

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 granules are available in standard compositions such as 3mol and 8mol, and can also be customized to different yttria ratios according to specific requirements. It offers excellent ionic conductivity, high mechanical strength, and thermal stability.

Application: Thermal barrier coatings, solid oxide fuel cells, oxygen sensors, etc.

Product

Image:



1. Sizes

Product ID	Formular	Particle Size
3908400800GN001	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (3%mol Y_2O_3)	1 mm - 4 mm
3908400800GN002	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (8%mol Y_2O_3)	1 mm - 4 mm
3908400800GNDZ	$\text{Y}_2\text{O}_3\text{-ZrO}_2$ (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

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 appropriate protective gear to minimize dust exposure and operate in a well-ventilated area.

Store in a dry, cool environment in sealed containers to prevent moisture uptake and contamination.

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