

Technical Data Sheet

Zirconium Boride Powder

Product ID: 400500PD001 - 400500PD003

Formular: ZrB₂

Molecular weight: 112.85 g/mol

CAS No.: 12045-64-6

EINECS No.: 234-963-5

Color: Black

Description: Our zirconium diboride typically has a purity of ≥99% and can be customized to different particle sizes upon request. It features excellent electrical and thermal conductivity as well as good corrosion resistance.

Application: Aerospace, nuclear industry, electrode materials, protective materials, cutting tools, and abrasives.

Product

Image:



1. Sizes

Product ID	Formular	Particle Size
400500PD001	ZrB ₂ (Zr+Hf≥99%)	D50 < 10 µm
400500PD002	ZrB ₂ (Zr+Hf≥99%)	-325 Mesh
400500PD003	ZrB ₂ (Zr+Hf≥99%)	500 nm
400500PDDZ	ZrB ₂ (Zr+Hf≥99%)	Customized

2. Chemical compositions

Element Typical Value Purity	Metal impurities (wt%)						
	Fe	Nb	W	Ti	Cr	Mo	Si
Zr+Hf ≥ 99%	≤ 0.20	≤ 0.05	≤ 0.05	≤ 0.03	≤ 0.05	≤ 0.05	≤ 0.10

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

Bottle/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 (such as gloves, goggles, and a dust mask) to avoid inhalation of dust or skin contact.

Store in a cool, sealed, and dry place, away from strong oxidizing agents.

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