

Technical Data Sheet

Hafnium Carbide Powder

Product ID: 720600PD001 - 720600PD003

Formular: HfC

Molecular weight: 190.5 g/mol

CAS No.: 12069-85-1

EINECS No.: 235-114-1

Color: Black

Description: Our hafnium carbide typically has a purity of $\geq 99\%$ and is available in both nano and micron sizes. It features an extremely high melting point, excellent corrosion resistance, and thermal stability, making it an ideal high-temperature material for extreme environments.

Application: Aerospace, nuclear industry, hard alloys, electronics industry, etc.

Product

Image:



1. Sizes

Product ID	Formular	Particle Size
720600PD001	HfC (99%)	< 500 nm
720600PD002	HfC (99%)	D50< 5 μ m
720600PD003	HfC (99.5%)	-325 Mesh
720600PD2NDZ	HfC (99%)	Customized
720600PD2N5DZ	HfC (99.5%)	Customized

2. Chemical compositions

Element Typical Value Purity	Chemical Composition (wt%)								
	C _T	C _F	Fe	W	Ti	Cr	Ni	Si	Mn
99%	≥ 6.12	≤ 0.10	≤ 0.50	≤ 0.10	≤ 0.02	≤ 0.02	≤ 0.05	≤ 0.10	≤ 0.05
99.5%	≥ 6.12	≤ 0.10	≤ 0.20	≤ 0.10	≤ 0.01	≤ 0.01	≤ 0.05	≤ 0.05	≤ 0.05

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 to avoid inhalation of dust or skin contact and operate in a well-ventilated area.

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

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