

Certificate of Analysis (CoA)

Jul. 25, 2026

Product Name: Hafnium Carbide Powder

Chemical Formula: HfC

Product Form: Ultrafine powder

Particle Size Specification: $D_{50} \leq 5 \mu\text{m}$

Quantity: 1 kg Pack

Lot Number: CSSTL-260725B025

Manufactured by: MetalsTek Engineering

Physical Description

- Form: Hafnium Carbide powder
- Appearance: Gray to dark gray/black fine powder
- Morphology: Ultrafine powder
- Package: 1 kg per pack
- Surface / Condition: Powder is packed in clean sealed packaging with no visible foreign contamination

Chemical Composition / Impurity Data

Element / Item	Symbol / Formula	Result
Hafnium	Hf	91.7 wt.%
Carbon	C	6.3 wt.%
Zirconium	Zr	1.5 wt.%
Iron	Fe	0.15 wt.%
Total impurities	—	$\leq 0.50 \text{ wt.}\%$

Purity (HfC): $\geq 99.0\%$

Particle Size Analysis

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Item	Specification / Method	Result
Particle Size Specification	D50 $\leq$ 5 μ m	Conforms
Laser Particle Size	Laser particle size analysis	D50: 3.083 μ m

Package & Visual Inspection

Item	Specification	Inspection Result
Product Form	Ultrafine powder	Conforms
Particle Size Label	D50 $\leq$ 5 μ m	Conforms
Quantity	1 kg Pack	Conforms
Lot Number	CSSTL-260725B025	Conforms
Visual Appearance	No visible foreign contamination or package damage	Passed

Handling & Storage

- Handle in a well-ventilated area and avoid generating airborne dust.
- Keep container tightly closed when not in use.
- Store in a cool, dry, clean environment away from moisture, oxidizing agents, and incompatible materials.
- Wear suitable gloves, eye protection, and dust protection during handling.

Declaration

We certify that the above hafnium carbide powder has been inspected according to our quality management system. The product meets the stated chemical composition, particle size, quantity, packaging, and visual inspection requirements herein.



32 N Gould St., Sheridan, WY 82801, USA

Tel.: +1 (786) 825 8645

Email: sales@metalstek.com

WhatsApp: Keyue Advanced Materials

Website: www.metalstek.com

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Authorized Signature:

Inspection Certificate by: Nancy Liu

Approver by: Chen Qiang

A handwritten signature in black ink that reads 'Chen Qiang'.