

Certificate of Analysis (CoA)

May 11, 2026

Product Name: Hafnium Carbide Powder**Chemical Formula:** HfC**Purity:** 99%**Particle Size:** 1–3 μm **Morphology:** Non-spherical**Quantity:** 500 g**Lot Number:** CSSTL-260510B21 (2601700)**Manufactured by:** MetalsTek Engineering

Physical Description

Appearance: Dark gray to black powder

Crystal Structure: Cubic

Theoretical Density: 12.2 g/cm³Melting Point: ~3890 °C

Chemical Composition

Component	Symbol	Typical Value
Total Carbon	C	≤6.1 wt%
Free Carbon	C(free)	<0.08 wt%
Oxygen	O	<0.15 wt%
Zirconium	Zr	<1.0 wt%
Iron	Fe	<0.10 wt%
Silicon	Si	<0.05 wt%
Other metallic impurities	–	<0.50 wt%
HfC Phase Purity	–	>99%

Particle Size Distribution

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Parameter Value

Fsss 2.18 μm

Morphology Non-spherical

Handling & Storage

Store in a dry and sealed container.

Avoid exposure to moisture and oxidizing atmosphere.

Handle with appropriate protective equipment to avoid inhalation of fine powder.

Declaration

The material described above has been manufactured, inspected, and released in accordance with internal quality control procedures and complies with the specifications stated herein.

Authorized Signature:

Inspection Certificate by: Nancy Liu

Approver by: Chen Qiang

