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



Tel.: +1 (786) 825 8645

Email: sales@thinfilmmaterials.com WhatsApp: Keyue Advanced Materials Website: www.thinfilmmaterials.com

Certificate of Analysis (CoA)

Nov. 11, 2025

Product Name: Zirconium Dioxide Pieces

Chemical Formula: ZrO₂

Purity: 99.9% (3N)

Dimensions: 3 - 6 mm Pieces

Color: Black **Quantity: 5 KG**

Lot Number: CSFM-251111TB

Manufactured by: Thin-Film Materials

Physical Description

Form: Solid ceramic pieces

Appearance: Black, dense, sintered zirconia fragments

Crystal Structure: Monoclinic / partially stabilized tetragonal

Theoretical Density: ~5.68 g/cm³

Fabrication: High-purity zirconium oxide powder sintered under

controlled temperature and atmosphere

Chemical Composition (by XRF / ICP-OES)

Element	Symbol	Max. Content (ppm)
Zirconium	Zr	Balance (>99.9%)
Iron	Fe	<30
Silicon	Si	<30
Aluminum	Al	<20
Calcium	Ca	<20
Magnesium	Mg	<20
Sodium	Na	<10
Copper	Cu	<10
Other trace elements (each)	_	<10
Total Impurities	_	<100 ppm



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Handling & Storage

Authorized Signature:

- Store in a clean, dry environment.
- Avoid mechanical impact and contamination.
- Handle with clean gloves; prevent exposure to strong acids or alkalis.

Declaration

We certify that the above product has been manufactured and tested in accordance with our quality control standards and meets the specifications stated herein.

Inspection Certificate by:	Nancy Liu	
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Approver by:	Chen Qiang	chen Gang