HALBLEITER MATERIAL

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Technical Data Sheet

Zirconium Carbide Sputtering Target

Product ID:	**400600ST001 - 400600ST007**		
Formula:	ZrC	**Molecular weight:**	103.23 g/mol
CAS No.:	12070-14-3	**EINECS No.:**	235-125-1
Color:	Black		
Description:	Zirconium carbide (ZrC) sputtering targets offer high hardness, an extremely high melting point, excellent thermal stability and good wear resistance.		
Application:	Used for depositing hard, wear-resistant and high-temperature protective coatings in semiconductor, aerospace, cutting tool and advanced coating applications.		
Product Image:			

1. Sizes

Product ID	Formula	Particle Size
400600ST001	ZrC (99.5%)	Ø 50.8 mm x 3.175 mm
400600ST002	ZrC (99.5%)	Ø 50.8 mm x 6.35 mm
400600ST003	ZrC (99.5%)	Ø 76.2 mm x 3.175 mm
400600ST004	ZrC (99.5%)	Ø 76.2 mm x 6.35 mm
400600ST005	ZrC (99.5%)	Ø 101.6 mm x 3.175 mm
400600ST006	ZrC (99.5%)	Ø 101.6 mm x 6.35 mm
400600ST007	ZrC (99.5%)	Ø 203.2 mm x 6.35 mm
400600STDZ	ZrC (99.5%)	Customized

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2. Chemical compositions

	Chemical Composition (ppm)						
Element / Typical Value / Purity	Fe	Si	Ca	Mg	Al	Cu	Ni
99.5%	≤ 1000	≤ 800	≤ 150	≤ 150	≤ 600	≤ 500	≤ 300

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

Carton/wooden box outer bag.
Double vacuum inner bag.
Custom packaging is available.

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

Handle the target carefully with clean gloves and appropriate tools to prevent surface contamination, scratches and mechanical damage.

Store in its original sealed packaging in a clean, dry environment to prevent oxidation, moisture exposure and surface contamination.

Contact Us

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