

Technical Data Sheet

Boron Carbide Sputtering Target

Product ID: 050600ST001 - 050600ST003

Formula: B₄C

Molecular weight: 55.25 g/mol

CAS No.: 12069-32-8

EINECS No.: 235-111-5

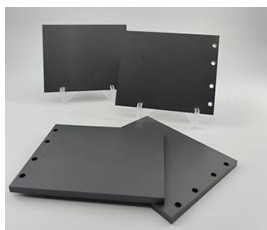
Color: Black

Description: Our boron carbide sputtering targets with 99.5% purity offer excellent hardness, chemical stability, and wear resistance, making them suitable for depositing durable, protective, and functional thin films.

Application: Used in hard protective coatings, wear-resistant films, neutron-absorbing coatings, and functional thin films.

Product

Image:



1. Sizes

Product ID	Formula	Size
050600ST001	B ₄ C (99.5%)	Ø 50.8 mm x 3.175 mm
050600ST002	B ₄ C (99.5%)	Ø 101.6 mm x 3.175 mm
050600ST003	B ₄ C (99.5%)	25 mm x 25 mm x 1 mm th.
050600STDZ	B ₄ C (99.5%)	Customized

2. Chemical compositions

	Chemical Compositions (ppm)							
Element Typical Value Purity	Ca	Cr	Dy	Fe	Gd	Hf	Ni	Si
99.5%	≤ 200	≤ 200	≤ 200	≤ 300	≤ 200	≤ 200	≤ 200	≤ 500

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.

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 carefully with clean gloves to prevent surface contamination, chipping, or cracking during installation and use.

Store in sealed packaging in a clean, dry environment, protected from moisture, dust, and mechanical damage.

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