HALBLEITER MATERIAL

Email: info@vimaterial.de
Tel: 0049 1626484175

Technical Data Sheet

Niobium Silicide Sputtering Target

Product ID: **411400ST001 / 411400ST002**

Formula: $NbSi_2$ **Molecular weight:** 149.08 g/mol

CAS No.: 12034-80-9 **EINECS No.:** 234-812-3

Color: Gray black

Description: $NbSi_2$ sputtering targets offer high-temperature stability, good electrical conductivity, and excellent oxidation resistance, making them suitable for functional thin-film deposition.

Application: Used in high-temperature protective coatings, electronic thin films, semiconductor research, and advanced ceramic and alloy coatings.

Product Image:



1. Sizes

Product ID	Formula	Dimensions
411400ST001	$NbSi_2$ (99.5%)	Ø 50.8 mm x 3.175 mm
411400ST002	$NbSi_2$ (99.5%)	Ø 76.2 mm x 6.35 mm
411400STDZ	$NbSi_2$ (99.5%)	Customized

2. Chemical compositions

	Metal impurities (ppm)					
Element / Typical Value / Purity	Fe	Al	Ni	Cu	Ti	Ta
99.5%	≤ 1500	≤ 50	≤ 50	≤ 50	≤ 100	≤ 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.
Customized packaging available upon request.

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 with clean gloves and appropriate protective equipment, avoiding surface contamination, mechanical impact, and scratches.

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

Contact Us

Website:www.vimaterial.de
Email: info@vimaterial.de
Tel: 0049 1626484175
Address: Begener Straße 14., 30625 Hannover, Niedersachsen, Germany.