

Technical Data Sheet

Silicon Nitride Sputtering Target

Product ID: 140700ST001 - 140700ST013

Formular: Si_3N_4

Molecular weight: 140.28 g/mol

CAS No.: 12033-89-5

EINECS No.: 234-796-8

Color: Light gray

Description: Our silicon nitride targets have a purity of 99.5% and can be customized to various sizes as needed, featuring high density, excellent chemical stability, and uniform sputtering performance.

Application: Semiconductor manufacturing, optical coatings, protective films, advanced electronic devices, etc.

Product

Image:



1. Sizes

Product ID	Formular	Size
140700ST001	Si_3N_4 (99.5%)	Ø 25.4mm x 3.175 mm
140700ST002	Si_3N_4 (99.5%)	Ø 25.4mm x 6.35 mm
140700ST003	Si_3N_4 (99.5%)	Ø 50.8mm x 3.175 mm
140700ST004	Si_3N_4 (99.5%)	Ø 50.8mm x 6.35 mm
140700ST005	Si_3N_4 (99.5%)	Ø 76.2mm x 3.175 mm
140700ST006	Si_3N_4 (99.5%)	Ø 76.2mm x 6.35 mm
140700ST007	Si_3N_4 (99.5%)	Ø 101.6mm x 3.175 mm
140700ST008	Si_3N_4 (99.5%)	Ø 101.6mm x 6.35 mm
140700ST009	Si_3N_4 (99.5%)	Ø 203.2mm x 3.175 mm
140700ST010	Si_3N_4 (99.5%)	Ø 203.2mm x 6.35 mm
140700ST011	Si_3N_4 (99.5%)	300mm x 186mm x 6mm
140700ST012	Si_3N_4 (99.5%)	378.2mm x 121.15mm x 6.35mm
140700ST013	Si_3N_4 (99.5%)	400mm x 289mm x 10mm
140700STDZ	Si_3N_4 (99.5%)	Customized

2. Chemical compositions

Element Typical Value Purity	Chemical Compositions (ppm)							
	Ag	Ca	Cd	Fe	Mg	Na	Cu	Ti
99.5%	≤ 20	≤ 150	≤ 50	≤ 200	≤ 30	≤ 100	≤ 100	≤ 100

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.

Customizable packaging is 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

When using, wear protective equipment and operate in a clean, dry environment to ensure stable sputtering performance and avoid contamination.

Store in a sealed package in a cool, dry place, away from moisture and strong oxidizing agents.

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