

Technical Data Sheet

Silicon Sputtering Target

Product ID: 1400ST001 - 1400ST019

Formular: Si

Molecular weight: 28.09 g/mol

CAS No.: 7440-21-3

EINECS No.: 231-130-8

Color: Gray

Description: Our silicon sputtering targets are available in both single-crystal and polycrystalline forms, with a purity $\geq 5N$. They can be P-type and N-type doped, and feature high purity, uniform and dense structure, and excellent conductivity.

Application: Semiconductor devices, thin-film photovoltaics, and advanced electronic and optical applications.

**Product
Image:**



1. Sizes

Product ID	Formular	Size	Crystal form
1400ST001	Si (99.999%)	Ø 50.8mm x 3.175 mm	Monocrystalline / Polycrystalline
1400ST002	Si (99.9999%)	Ø 50.8mm x 3.175 mm	Monocrystalline / Polycrystalline
1400ST003	Si (99.999%)	Ø 50.8mm x 6.3 mm	Monocrystalline / Polycrystalline
1400ST004	Si (99.999%)	Ø 76.2mm x 3.175 mm	Monocrystalline / Polycrystalline
1400ST005	Si (99.9999%)	Ø 76.2mm x 3.175 mm	Monocrystalline / Polycrystalline
...	Monocrystalline / Polycrystalline
1400ST017	Si (99.999%)	151 mm x 113 mm x 7mm	Monocrystalline / Polycrystalline
1400ST018	Si (99.999%)	300 mm x 100 mm x 6mm	Monocrystalline / Polycrystalline
1400ST019	Si (99.9999%)	350mm x 75mm x 6mm	Monocrystalline / Polycrystalline
1400ST4NDZ	Si (99.999%)	Customized	Monocrystalline / Polycrystalline
1400ST5NDZ	Si (99.9999%)	Customized	Monocrystalline / Polycrystalline

2. Chemical compositions

Element Typical Value Purity	Metal impurities (ppm)					
	Fe	Al	Cu	Mn	Ca	Zn
99.999%	≤ 1.5	≤ 1.0	≤ 1.0	≤ 0.50	≤ 1.0	≤ 1.0
99.9999%	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.05	≤ 0.1	≤ 0.1

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 (stored under proper conditions). 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 dry, clean, well-ventilated environment while avoiding mechanical impact and contamination.

Store in a sealed container in a cool, dry place, protected from moisture and surface contamination.

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