



Silicon Rotary Target

❖ Product Introduction

Silicon rotary target is a high-purity silicon sputtering material designed for rotary magnetron sputtering systems. It is manufactured from high-purity silicon with excellent chemical stability, uniform composition, and reliable sputtering performance. Silicon rotary targets are widely used for thin film deposition in semiconductor research, photovoltaic technologies, optical coatings, and advanced functional coating applications.

❖ Product Characteristics

1. High purity silicon material with excellent sputtering performance
2. Uniform composition and stable deposition rate
3. High material utilization compared with planar targets
4. Excellent thermal stability and chemical stability
5. Suitable for continuous rotary magnetron sputtering systems
6. Custom dimensions and bonding solutions available

❖ Product Specifications

Product ID	Formula	Purity	Size
1400RT001	Si	99.95%	ID125mm x OD133mm x 850mm
1400RT002	Si	99.95%	ID125mm x OD133mm x 1600mm
1400RT003	Si	99.999%	ID125mm x OD149mm x 1600mm
1400RTC01	Si	Customized	Customized

Chemical Compositions (ppm)								
Purity	Fe	Cu	Ni	Cr	Al	Ti	Na	K
99.95%	≤50	≤50	≤50	≤50	≤50	≤50	≤50	≤50
99.999%	≤2	≤1	≤1	≤0.5	≤1	≤0.5	≤1	≤0.5

❖ **Density** : $\geq 2.2\text{g/cm}^3$

❖ **Resistivity**: $\leq 150\ \Omega\cdot\text{cm}$ (Typical)

❖ **Surface Roughness (Ra) :** $\leq 3.2 \mu\text{m}$

❖ **Typical Applications**

Silicon rotary targets are widely applied for semiconductor thin film deposition, photovoltaic coating, optical coating, dielectric & functional coatings, advanced thin film R&D, and large-area rotary magnetron sputtering coating systems.

❖ **Packaging**

Outer Packaging: Wooden Crate

Inner Packaging: Double-layer Vacuum-sealed Bag

Packaging Specifications: 1 piece/bag

Custom packaging available upon request.

❖ **Storage**

Store the product in a clean, dry environment. Avoid moisture, dust, and mechanical damage during transportation and storage. Keep the target protected from contamination before installation into the sputtering system.

❖ Custom specifications are available, including

- Higher purity grades
- Customized dimensions
- Customized rotary target design
- Bonding services
- Specific impurity requirements
- Customer-defined packaging solutions

❖ **Cautions**

This product is harmful if swallowed or inhaled, and may cause skin and eye irritation. Inhalation may irritate the respiratory tract; avoid inhalation. We recommend that customers inform us of their intended use before purchasing to ensure proper product use.

Disclaimer

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