

Technical Data Sheet

Samarium Metal Sputtering Target

Product ID: 6200ST001 - 6200ST005

Formular: Sm

Molecular weight: 150.4 g/mol

CAS No.: 7440-19-9

EINECS No.: 231-128-7

Color: Silver gray

Description: Our samarium sputtering target features purity of $\geq 99.9\%$ (Sm/RE), is available in customizable sizes to meet specific requirements, and offers excellent thermal stability and strong neutron absorption.

Application: Thin-film coatings, permanent magnet production, electronic devices, and nuclear or scientific research.

Product

Image:



1. Sizes

Product ID	Formular	Size
6200ST001	Sm (99.9% (Sm/RE))	Ø 25.4 mm x 6.35 mm
6200ST002	Sm (99.9% (Sm/RE))	Ø 50.8 mm x 6.35 mm
6200ST003	Sm (99.95% (Sm/RE))	Ø 50.8 mm x 6.35 mm
6200ST004	Sm (99.95% (Sm/RE))	Ø 76.2 mm x 3.175 mm
6200ST005	Sm (99.95% (Sm/RE))	Ø 76.2 mm x 6.35 mm
6200ST3NDZ	Sm (99.9% (Sm/RE))	Customized
6200ST3N5DZ	Sm (99.95% (Sm/RE))	Customized

2. Chemical compositions

		Chemical Compositions (ppm)			
Main Content		TREM ≥99%, Sm/TREM ≥99.9%			
RE Impurities (ppm)					
La	Ce	Eu	Gd	Tb	Yb
≤ 300	≤ 100	≤ 100	≤ 100	≤ 100	≤ 100
Non-RE Impurities (ppm)					
Fe	Al	Si	Ca		
≤ 300	≤ 100	≤ 150	≤ 200		
Main Content		TREM ≥99.5%, Sm/TREM ≥99.95%			
RE Impurities (ppm)					
La	Ce	Eu	Gd	Tb	Yb
≤ 200	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50
Non-RE Impurities (ppm)					
Fe	Al	Si	Ca		
≤ 200	≤ 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

The inner packaging uses vacuum-sealed or inert gas-filled containers for safe protection.

The outer packaging consists of cartons or wooden crates for secure transportation.

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 in a dry, inert atmosphere or glove box to avoid direct contact with air and moisture, preventing oxidation.

Stored in sealed vacuum or inert gas-filled containers in a cool, dry environment to maintain stability and performance.

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