HALBLEITER MATERIAL

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Technical Data Sheet

Samarium Metal Foil

Product ID:	**6200FI001 - 6200FI004**		
Formular:	Sm	**Molecular weight:**	150.4 g/mol
CAS No.:	7440-19-9	**EINECS No.:**	231-128-7
Color:	Silver gray		
Description:	Our samarium foil features a purity of ≥99.9% (Sm/RE), is available in customizable sizes to meet specific requirements, and offers excellent high-temperature resistance, oxidation resistance, as well as stable magnetic and chemical properties.		
Application:	Nuclear control systems, magnetic materials, high-temperature functional components, etc.		
Product Image:			

1. Sizes

Product ID	Formular	Size
6200FI001	Sm (99.9% (Sm/RE))	25 mm x 25 mm x 0.12 mm
6200FI002	Sm (99.9% (Sm/RE))	25 mm x 50 mm x 0.25 mm
6200FI003	Sm (99.95% (Sm/RE))	100 mm x 100 mm x 0.25 mm
6200FI004	Sm (99.95% (Sm/RE))	105 mm x 105 mm x 0.5 mm
6200FI3NDZ	Sm (99.9% (Sm/RE))	Customized
6200FI3N5DZ	Sm (99.95% (Sm/RE))	Customized

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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

When using, handled in a dry, inert atmosphere or glove box, avoiding direct exposure to air and moisture to prevent oxidation.

It should be sealed in vacuum or inert gas–filled containers and stored in a cool, dry environment to maintain material stability.

Contact Us

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