



## Chem-Metals & Rare Earth

### ■ Samarium



**Samarium**, silvery white metal, is stable in dry air, but easy to be oxidized in wet air, it is soluble in acid, but insoluble in water. It is mainly used as neutron-absorbing material, permanent magnet material, microwave and infrared material. And also found application in solid state component and superconducting technology etc.

Formula	Sm
Appearance	Silvery White
Molecular weight	150.36
Density	7.54g/cm <sup>3</sup>
Melting Point	1072°C
CAS No.	7440-19-9

No.	Item	Standard Specification		
1	Sm/RE ≥	99.9%	99.99%	
2	RE ≥	99.0%	99.0%	
3	RE Impurity/RE Max	0.1%	0.01%	
4	Other Impurity Max	Fe	0.02%	0.01%
		Si	0.01%	0.005%
		Ca	0.03%	0.005%
		Mg	0.03%	0.005%
		Al	0.01%	0.005%
5	Packing	50kgs in iron drum with argon protection		

### ■ Scandium



**Scandium**, silvery white soft transition metal, is soluble in water, and easy to be oxidized in air. It is mainly used in the manufacture of special glass, solar energy photovoltaic cells, fuel cell, high-temperature alloy and engineering ceramic material etc.

Formula	Sc
Appearance	Silvery White
Molecular weight	44.96
Density	2.99g/cm <sup>3</sup>
Melting Point	1541°C
CAS No.	7440-20-2

No.	Item	Standard Specification		
1	Sc/RE ≥	99.99%	99.999%	
2	RE ≥	99.0%	99.0%	
3	RE Impurity/RE Max	0.01%	0.001%	
4	Other Impurity Max	Fe	0.015%	0.01%
		Si	0.008%	0.005%
		Ca	0.015%	0.01%
		Mg	0.002%	0.001%
		Al	0.015%	0.01%
5	Packing	1kgs in vacuumed composite aluminum		