



## High Purity Elements & Compounds

### □ Antimony

**Antimony** is a hard, brittle crystalline metal with silvery white and lustrous color. High purity antimony of 99.99%, 99.999%, 99.9999%, 99.99999% (4N 5N 6N



7N) is primarily used in the manufacturing of thermoelectric devices, infrared detectors, high purity alloys, electronic cooling elements, III-V compound semiconductors such as Gallium Antimonide (GaSb) and Indium Antimonide (InSb), Gallium Arsenide (GaAs) and as the dopant of single crystal silicon and germanium growth.

Antimony	<b>Sb</b>
Atomic No.	51
Atomic Weight	121.76
Density	6.62gm/cc
Melting Point	630° C
Boiling Point	1380° C
CAS No.	7440-36-0
H.S Code	8110.1010.00

No.	Item	Standard Specification						
1	Antimony $\geq\%$	99.99	99.995	99.999	99.9995	99.9999	99.99999	
2	Impurity PPM <sub>wt</sub> Max Each	Ag	1.0	1.0	0.05	0.05	0.01	0.002
		Cu	1.0	1.0	0.05	0.05	0.01	0.002
		Mg	5.0	2.0	0.20	0.20	0.05	0.005
		Ni	1.0	1.0	0.20	0.20	0.05	0.005
		Zn	5.0	5.0	0.50	0.20	0.05	0.020
		Fe	5.0	5.0	0.50	0.20	0.05	0.020
		Cd	5.0	1.0	1.00	0.20	0.01	0.003
		Pb	10	10	0.50	0.30	0.05	0.005
		Bi	5.0	5.0	0.20	0.20	0.02	0.001
		Si	5.0	5.0	1.00	0.50	0.10	-
		Mn	1.0	1.0	0.05	0.05	0.01	0.001
		Au	1.0	1.0	0.20	0.10	0.05	0.020
		As	10	5.0	1.00	0.50	0.30	0.020
S	10	10	0.50	0.30	0.10	-		
	Total	100	50	10	5	1	0.1	
3	Size	① 5N 6N 7N 3-25mm irregular lump 90% ② 5N 6N D40XL200mm bar, D15+/-2mm rod ③ 5N 6N 7N 1-3mm /1-6mm Shot						
4	Packing	1kg or 2kgs is in polyethylene bottle with plastic bag outside						

### □ Antimony Oxide

**Antimony Oxide** or (Antimony Trioxide),  $Sb_2O_3$ , with purity of 99.99% and 99.999%, is mainly for the manufacturing of antimony compounds, flame-retardant, electronic elements, light proof agent, mordant and high purity reagent.



No.	Item	Standard Specification	
1	$Sb_2O_3 \geq\%$	99.99	99.999
2	Impurity PPM <sub>wt</sub> Max Each	Ag	-
		Mg	-
		As	5.0
		Bi	2.0
		Pb/Al/Ni/Cu	5.0
		Fe/Ca	5.0
3	Size	1-4 $\mu$ m	<20 $\mu$ m, 95%Min
4	Packing	25kgs in cardboard drum	1kg in polyethylene bottle

✉ E2-1-1011 Global Center, No.1700  
Tianfu Avenue North, Chengdu 610041, China

☎ Tel+28 8518 7251/7252/7253

Fax+28 8518 4110