Product Data Sheet

Antimony (Sb)

Antimony is a silvery, lustrous, minor metal. Antimony is mainly used as a fire retardant and for creating various alloys. Antimony is increasingly being used in the semiconductor market for Indium Antimonide (InSb), Gallium Antimonide (GaSb), Hall Effect Devices, and as a dopant.

General	
Name	Antimony
Symbol	Sb
Number	51
Standard atomic weight	121.76 $g \cdot mol^{-1}$
Solid Density (near r.t.)	6.70 $g \cdot cm^{-3}$
Liquid density at m.p.	6.53 $g \cdot cm^{-3}$
Melting point	630.6°C (1167.1°F)
Forms Available	Bars and chunks
Other forms	1 – 5 mm shot

Typical Impurity Levels (GDMS)	
Element	**6N5** Grade (ppb/mass)
Mg	<1
Al	<1
Si	<20
S	<5
Fe	<5
Ni	<1
Cu	<5
Zn	<5
Ga	<5
Ge	<5
As	<300
Cd	<10
Sn	<10
Tl	<5
Pb	<5
Bi	<5
7N is also available (<100ppb/mass)	

Fenix Advanced Materials Inc. uses a two stage, proprietary purification process that routinely produces 6N (99.9999%), 6N5 (99.99995%), and 7N (99.99999%) pure antimony in various forms (bars, chunks, and shot).

All of our 6N, 6N5, and 7N antimony is qualified using Glow Discharge Mass Spectrometry (GDMS) provided and certified by the National Research Council Canada (NRC). This ensures our customers receive their specified product with complete traceability to a national standard.

Fenix also has the ability to remove select impurities and provide custom forms for customers requiring precise antimony specifications.