

## Product Data Sheet

### Antimony (Sb)

Antimony (Sb) is a chemical element with the atomic number 51. It is a brittle, fusible, crystalline solid that exhibits poor electrical and heat conductivity properties.

Antimony is commonly used in batteries as it increases the hardness and strength of lead. It is also used in flame proofing compounds and paint. Antimony and some of its alloys are unusual in that they expand on cooling.

High purity applications for antimony include III – V compound semiconductors used in the production of diodes, infrared detectors and Hall-effect devices. Other uses are as dopants, thin film deposition and ultra-pure standard preparation.



General	
Name	Antimony
Symbol	Sb
Number	51
Standard atomic weight	121.760(1) g·mol <sup>-1</sup>
CAS No.	7440-36-0
Solid Density (near r.t.)	6.697 g·cm <sup>-3</sup>
Liquid density at m.p.	6.53 g·cm <sup>-3</sup>
Melting point	903.78 K (630.63 °C, 1167.13 °F)
Forms Available	Bar/Pieces

Typical Impurity Levels (GD-MS)	
Element	6N5 Grade (ppb/mass)
Mg	Not Detected
Al	Not Detected
Si	19
S	<5
Fe	<2
Ni	Not Detected
Cu	Not Detected
Zn	Not Detected
Ga	Not Detected
Ge	Not Detected
As	120
Cd	Not Detected
Sn	Not Detected
Tl	Not Detected
Pb	<10
Bi	Not Detected

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