

Sb

Properties:Antimony is a relatively stable metal element, not easy to oxidize at room temperature, with corrosion resistance. Antimony is brittle, fragile and non-ductile. Antimony is also a poor conductor of electricity and heat.

Uses:Preparation of high purity alloys, infrared materials; P-type materials for solar cells, doping source for N-type silicon single crystals.

· Identifier

Chemical Formula	Sb
CAS No.	7440-36-0
EINECS No.	231-146-5

· Physical and chemical properties

Molecular weight	121.76 g/mol	Flash point	-18℃	Reactivity	Stable in air, combustible when exposed to open flame and high heat
Appearance	Silver-white solid	Melting point	630.5℃	Solubility	Soluble in hot concentrated sulfuric acid, insoluble in water
Density	6.7 g/cm ³	Boiling point	1635℃	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	Unit	Specification	Impurities	Unit	Specification
Na	ppbw	≤5	Nb	ppbw	≤5
Mg	ppbw	≤5	Cd	ppbw	≤10
Al	ppbw	≤5	Sn	ppbw	≤10
Si	ppbw	≤10	Te	ppbw	≤10
S	ppbw	≤10	Fe	ppbw	≤10
Ca	ppbw	≤10	Ga	ppbw	≤5
Pb	ppbw	≤5	Ge	ppbw	≤5
Bi	ppbw	≤5	As	ppbw	≤15
Se	ppbw	≤5	Hg	ppbw	≤5
Mn	ppbw	≤5	/	/	/
Zr	ppbw	≤5	Combined total impurities	ppbw	≤50



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