

In

Properties: Indium(In) is a silvery-white and bluish metal. It is so extremely soft that can be scratched with a fingernail, malleable and ductile. There are very few separate minerals of indium, and most of them are associated with Sn, Pb, Sb, Zn and other minerals.

Uses: It is used in source material for molecular beam epitaxy; doping source for semiconductor materials; preparing ITO targets.

· Identifier

Chemical Formula	In
CAS No.	7440-74-6
EINECS No.	231-180-0

· Physical and chemical properties

Molecular weight	114.82 g/mol	Flash point	2072°C	Reactivity	Stable at room temperature
Appearance	silvery white metal	Melting point	156.6°C	Solubility	Soluble in concentrated inorganic acid, insoluble in water
Density	7.3 g/cm ³	Boiling point	2060°C	Storage	Shady and cool, well-ventilated

· Metal impurities

Project	Unit	Specification	Project	Unit	Specification
Be	ppbw	≤1	Cu	ppbw	≤5
B	ppbw	≤1	Ga	ppbw	≤10
Na	ppbw	≤1	Ge	ppbw	≤10
Mg	ppbw	≤1	As	ppbw	≤5
Al	ppbw	≤5	Se	ppbw	≤10
Si	ppbw	≤10	Zr	ppbw	≤1
P	ppbw	≤10	Mo	ppbw	≤5
S	ppbw	≤10	Ag	ppbw	≤5
K	ppbw	≤5	Cd	ppbw	≤20
Ca	ppbw	≤5	Sn	ppbw	≤20
Ti	ppbw	≤5	Sb	ppbw	≤10
V	ppbw	≤1	Te	ppbw	≤5
Cr	ppbw	≤5	Cs	ppbw	≤5
Mn	ppbw	≤1	W	ppbw	≤5
Fe	ppbw	≤10	Au	ppbw	≤20
Ni	ppbw	≤15	Hg	ppbw	≤5
Co	ppbw	≤1	Tl	ppbw	≤5
Cu	ppbw	≤5	Pb	ppbw	≤10
Bi	ppbw	≤10	Combined total impurities	ppbw	≤50

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