



Product Data Sheet

Tin (Sn)

Tin is a chemical element with symbol Sn and atomic number 50. This silvery-white malleable metal is chemically similar to the two other metals in group 14, germanium and lead. Advanced applications of tin include metal fixed point cells for true primary temperature standards and plasma source in extreme ultraviolet lithography.

General	
Name	Tin
Symbol	Sn
Number	50
Standard atomic weight	118.71 g·mol ⁻¹
Solid Density (near r.t.)	7.265 g·cm ⁻³
Liquid density at m.p.	7.166 g·cm ⁻³
Melting point	231.9°C (449.5°F)
Forms Available	1kg bars
Other Forms	5 - 10 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
In	<10
Cd	<10
Tl	<5
Pb	<5
Bi	<5
Sb	<5
7N 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 tin in various forms (bars and shot).

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

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