Product Data Sheet

Tellurium (Te)

Tellurium is a chemical element with symbol Te and atomic number 52. This brittle, rare, silvery-white metal is chemically related to sulfur and selenium in group 16. Advanced applications include cadmium-telluride (CdTe) solar photovoltaics and cadmium-zinc-telluride (CZT) semiconductor for gamma and x-rays conversion used in advanced imaging.

General	
Name	Tellurium
Symbol	Te
Number	52
Standard atomic weight	127.60 $g \cdot mol^{-1}$
Solid Density (near r.t.)	6.24 $g \cdot cm^{-3}$
Liquid density at m.p.	5.70 $g \cdot cm^{-3}$
Melting point	449.5°C (841.1°F)
Forms Available	1kg bars
Other Forms	5 – 10 mm shot

Typical Impurity Levels (GDMS)	
Element	**6N5** Grade (ppb/mass)
Mg	<2
Al	<5
Si	<5
S	<10
Fe	<10
Ni	<5
Cu	<5
Zn	<10
Ga	<2
Ge	<5
Se	<30
In	<10
Cd	<10
Tl	<2
Pb	<2
Bi	<2
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 tellurium in various forms (bars and shot).

All of our 6N, 6N5, and 7N tellurium 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.