



Product Data Sheet

Cadmium (Cd)

Cadmium is a chemical element with symbol Cd and atomic number 48. This soft, silvery-white metal is chemically similar to the two other stable metals in group 12, zinc and mercury. Cadmium easily absorbs neutrons, which makes it ideal for CdTe solar panels, CZT Gamma and X-Ray detectors along with NiCd batteries.

General	
Name	Cadmium
Symbol	Cd
Number	48
Standard atomic weight	112.41 g·mol ⁻¹
Solid Density (near r.t.)	8.65 g·cm ⁻³
Liquid density at m.p.	8.00 g·cm ⁻³
Melting point	321.1°C (609.9°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	<5
Fe	<10
Ni	<5
Cu	<5
Zn	<10
Ga	<2
Ge	<5
As	<10
In	<10
Sn	<10
Tl	<2
Pb	<2
Bi	<2
Sb	<2
7N also available (<100ppb/mass)	

Fenix Advanced Materials Inc. uses a three stage, proprietary purification process that routinely produces 6N (99.9999%), 6N5 (99.99995%), and 7N (99.99999%) pure cadmium in various forms (bars and shot).

All of our 6N, 6N5, and 7N cadmium 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 cadmium specifications.