

Material	Symbol	Melting Temperature (°C)	Density (bulk, g/cm ³)	Z-Ratio
Aluminum	Al	660	2.70	1.08
Antimony	Sb	631	6.62	0.768
Arsenic	As	612	5.73	0.966
Barium	Ba	729	3.5	2.1
Beryllium	Be	1287	1.85	0.543
Bismuth	Bi	271	9.78	0.79
Boron	B	2067	2.535	0.389
Cadmium	Cd	321	8.65	0.682
Cadmium sulfide	CdS	1750	4.83	1.02
Cadmium telluride	CdTe	1041	6.20	0.980
Calcium	Ca	839	1.55	2.62
Calcium fluoride	CaF ₂	1360	3.18	0.775
Carbon (diamond)	C	3550	3.52	0.22
Carbon (graphite)	C	3652	2.25	3.26
Chromium	Cr	1857	7.20	0.305
Cobalt	Co	1495	8.71	0.343
Copper	Cu	1083	8.93	0.437
Copper(I) Sulfide (Alpha)	Cu ₂ S	1100	5.6	0.69
Copper(I) Sulfide (Beta)	Cu ₂ S	1100	5.8	0.67
Copper(II) Sulfide	CuS	1100	4.6	0.82
Gallium	Ga	30	5.93	0.593
Gallium arsenide	GaAs	1238	5.31	1.59
Germanium	Ge	937	5.4	0.516
Gold	Au	1063	19.3	0.381
Gold Germanide	AuGe(12%)	-	17.63	0.3972
Indium	In	157	7.24	0.841
Indium antimonide	InSb	535	5.76	0.769
Indium tinide	InSn(80-20wt%)	-	7.25	0.8176
Iridium	Ir	2434	22.4	0.129
Iron	Fe	1536	7.86	0.349
Lead	Pb	327	11.342	1.13
Lead sulfide	PbS	1114	7.50	0.566
Lithium	Li	181	0.534	5.9
Lithium fluoride	LiF	896	2.64	0.774
Magnesium	Mg	649	1.74	1.61

Magnesium oxide	MgO	2642	3.58	0.411
Manganese	Mn	1244	7.44	0.377
Manganese Sulfide	MnS	-	3.99	0.94
Material	Symbol	Melting Temperature (°C)	Density (bulk, g/cm ³)	Z-Ratio
Mercury	Hg	-39	13.6	0.74
Molybdenum	Mo	2617	10.2	0.257
Nickel	Ni	1453	8.85	0.331
Nickel chromide	NiCr(80-20wt%)	-	8.52	0.3258
Niobium	Nb	2467	8.57	0.493
Palladium	Pd	1552	12.16	0.357
Platinum	Pt	1770	21.37	0.245
Potassium chloride	KCl	770	1.98	2.05
Selenium	Se	221	4.82	0.864
Silicon	Si	1412	2.34	0.712
Silicon dioxide (fused quartz)	SiO ₂	1610	2.20	1.07
Silicon monoxide	SiO	1702	2.13	0.87
Silver	Ag	961	10.492	0.529
Silver bromide	AgBr	432	6.47	1.18
Silver chloride	AgCl	455	5.56	1.32
Sodium	Na	98	0.971	4.8
Sodium chloride	NaCl	800	2.17	1.57
Sulfur	S ₈	115	2.07	2.29
Tantalum	Ta	2977	16.6	0.262
Tellurium	Te	450	6.25	0.900
Tin	Sn	232	7.30	0.724
Titanium	Ti	1670	4.50	0.628
Titanium oxide	TiO	-	4.9	N/A
Titanium dioxide	TiO ₂	1825	4.26	0.40
Tungsten	W	3380	19.3	0.163
Tungsten carbide	W ₂ C	2860	15.6	0.151
Uranium	U	1132	18.7	0.238
Vanadium	V	1902	5.87	0.530
Ytterbium	Yb	824	6.96	1.13
Yttrium	Y	1526	4.48	0.835
Zinc	Zn	420	7.14	0.514
Zinc oxide	ZnO	1975	5.61	0.556
Zinc selenide	ZnSe	1100	5.42	0.722
Zinc sulfide	ZnS	1700	4.10	0.775

Zirconium	Zr	1852	6.53	0.60
Material	Symbol	Melting Temperature (°C)	Density (bulk, g/cm³)	Z-Ratio