

CLAUDE MICHAEL PHYSICAL PROPERTIES OF METALS

Metal and Chemical Symbol	Density	Wt. Lbs. per Cu./n.	Coefficient of Linear Expansion per ° F. at Room Temperature	Melting Points		Boiling Points at 760 mm. Pressure	
				°Fahr.	o Cent.	oFahr.	°Cent.
Aluminum, pure (Al) ..	2.70	.0975	.0000133	1215	652	2733	1500
Antimony (Sb)	6.62	.239	.0000063	1166	630	2624	1440
Arsenic (As)	5.73	.2070	.00000214	*1497	*814	*1139	* 615
Barium(Ba)	3.5	.13	-	1310	710	2980	1640
Beryllium (Be)	1.82	.0658	.0000069	2343	1284	5036	2780
Bismuth (Bi)	9.80	.3541	.00000747	520	271	2642	1450
Boron (B)	3.3	.12	.0000046	4172	2300	4622	2550
Brass (67 Cu, 33 Zn) ..	8.47	.3060	.0000106	1670-1706	910-930	-	-
Brass(80Cu,20Zn)..	8.62	.3113	.0000100	1769-1814	965-990	-	-
Cadmium, cast (Cd) ...	8.65	.3125	.0000166	610	321	1413	767
Calcium (Ca)	1.55	.0560	.0000139	1564	851	2709	1487
Cerium (Ce)	6.9	.25	-	1184	640	2552	1400
Chromium (Cr) ,	7.148	.2579	.0000045	2822	1550	4500	2482
Cobalt (Co)	8.9	.3216	.0000067	2714	1490	5252	2900
Columbium(Cb)	8.57	.310	.0000040	4380	2415	5252	2900
Copper(Cu)	8.94	.324	.0000091	1981	1083	4703	2595
Gallium(Ga)	5.91	.214	.000010	85.6	29.8	3760	2070
Germanium(Ge)	5.36	.194	.0000079	1758	959	4892	2700
Gold,pure,cast(Au)..	19.3	.6973	.0000080	1945	1063	5371	2966
Indium(In)	7.31	.264	.000018	313.5	156.4	3632	2000
Iridium(Ir)	22.4	.809	.0000035	4368	2409	8852	4900
Iron,pure(Fe)	7.87	.284	.0000066	2795	1535	5430	3000
Iron,cast,4%Carbon..	7.03	.2538	.0000066	2102	1150	-	-
Lead(Pb)	11.36	.410	.000016	621	327.4	3092	1700
Lithium(Li)	0.53	.019	.000031	366.8	186	2403	1317
Magnesium(Mg)	1.74	.0628	.0000143	1204	651	2025	1107
Manganese(Mn)	7.44	.268	.0000128	2268	1242	3904	2151
Mercury(Hg)	13.546	.489	-	-38.0	-39	674	357
Molybdenum(Mo)	10.2	.369	.0000027	4748	2620	8670	4800
Nickel,cast(Ni)	8.9	.322	.0000076	2645	1452	5252	2900
Palladium(Pd)	12.0	.434	.0000066	2829	1554	7200	4000
Platinum(Pt)	21.45	.774	.0000043	3224	1773	7933	4390
Potassium(K)	0.86	.031	.000046	144.1	62	1425	774
Selenium(Se)	4.81	.174	.000021	428.9	220.5	1260	680
Silicon(Si)	2.33	.084	.0000041	2588	1420	4712	2600
Silver,pure(Ag)	10.5	.38	.0000105	1761	960	3634	2001
Sodium(Na)	0.97	.035	.0000395	207.5	97.5	1638	892
Steel,soft,.1%Carbon	7.87	.2843	.0000066	2732-2804	1500-1540	5430	3000
Tantalum(Ta)	.16.6	.600	.0000036	5162	2850	>9572	>5300
Tellurium(Te)	6.24	.224	.0000093	846	452	1989	1087
Thallium(Tl)	11.85	.4281	.000016	575.6	302	2660	1460
Thorium(Th)	11.6	.418	.0000064	3124	1718	7623	4210
Tin(Sn)	7.30	.264	.000013	450	232	4118	2270
Titanium(Ti)	4.5	.163	.00000396	3272	1800	9212	5100
Tungsten(W)	19.3	.698	.0000022	6098	3370	10700	5927
Uranium(U)	19.05	.686	.000009	2070	1133	7101	3927
Zinc(Zn)	7.14	.258	.000018	787	419.4	1665	907
Zirconium(Zr)	6.505	.235	.0000059	3226	1830	6480	3582

* Under pressure. Sublimes without melting at ordinary pressure.