

SPECIFIC GRAVITY, MELTING POINT, AND WEIGHT OF VARIOUS METALS AND ALLOYS

METAL	MELTING POINT °F	MELTING POINT °C	SPECIFIC GRAVITY
Aluminum	1220	660	2.70
Antimony	1167	630	6.62
Beryllium	2340	1280	1.82
Bismuth	520	271	9.80
Cadmium	610	321	8.65
Carbon	—	—	2.22
Chromium	3430	1890	7.19
Cobalt	2723	1495	8.90
Copper	1981	1083	8.96
Gold, 24K Pure	1945	1063	19.32
18K Green	1810	998	15.90
18K Yellow	1700	927	15.58
18K White	1730	943	14.64
18K Red	1655	902	15.18
14K Green	1765	963	14.20
14K Yellow	1615	879	13.07
14K White	1825	996	12.61
14K Red	1715	935	13.26
10K Green	1580	860	11.03
10K Yellow	1665	907	11.57
10K White	1975	1076	11.07
10K Red	1760	960	11.59
Iridium	4449	2454	22.50
Iron (pure)	2802	1539	7.87
Lead	621	327	11.34
Magnesium	1202	650	1.75
Manganese	2273	1245	7.43
Molybdenum	4760	2625	10.20
Nickel	2651	1455	8.90
Osmium	4892	2700	22.50
Palladium	2831	1555	12.00
Phosphorus	111	44	1.82
Platinum, Pure	3310	1773	21.45
15% Irid. Platinum	3310	1821	21.59
10% Irid. Platinum	3250	1788	21.54
5% Irid. Platinum	3235	1779	21.50
Rhodium	3571	1966	12.44
Ruthenium	4500	2500	12.20
Silicon	2605	1430	2.33
Silver, Pure	1761	961	10.49
Sterling Coin	1640	893	10.36
1615	879	10.31	
Tin	450	232	7.30
Zinc	787	419	7.13

GOLD SOLDER MELTING TEMPERATURES

Karat	Hardness	Color	°C	°F
20K	Hard	White	869	1595
18K	Hard	Yellow	793	1460
18K	Hard	White	858	1575
18K	Soft	Green	833	1530
18K	Soft	Yellow	760	1400
18K	Soft	White	718	1325
14K	Hard	Yellow	777	1430
14K	Hard	White	782	1440
14K	Medium	Yellow	735	1355
14K	Medium	White	758	1395
14K	Soft	Green	763	1405
14K	Soft	Pink	630	1165
14K	Soft	Yellow	716	1320
14K	Soft	White	710	1310
12K	Hard	Yellow	796	1465
12K	Hard	White	771	1420
12K	Soft	Yellow	677	1250
12K	Soft	White	708	1305
10K	Hard	Yellow	760	1400
10K	Hard	White	738	1360
10K	Medium	Yellow	719	1325
10K	Medium	White	727	1340
10K	Soft	Yellow	646	1195
10K	Soft	White	699	1290
8K	Hard	Yellow	721	1330
8K	Hard	White	746	1375
8K	Soft	Yellow	663	1225
8K	Soft	White	663	1225
8K	Soft	White	688	1270
6K	Soft	Green	719	1325
6K	Soft	Yellow	682	1260
6K	Soft	White	705	1300
6K	Repair	Yellow	621	1150

UNITED STATES AND BRITISH RING-SIZE EQUIVALENTS

United States	Average dia. in inches	Length in inches	British equivalent	United States	Average dia. in inches	Length in inches	British equivalent
000	.390	—	—	6-3/4	—	—	N-1/2
00	.422	—	—	7	.683	2.15	O
0	.454	1.429	—	7-1/4	—	—	O-1/2
1/2	—	—	A	7-1/2	.699	—	P
3/4	—	—	A-1/2	7-3/4	—	—	P-1/2
1	.487	1.528	B	8	.716	2.25	Q
1-1/4	—	—	B-1/2	8-1/4	—	—	Q-1/2
1-1/2	.503	—	C	8-1/2	.732	—	—
1-3/4	—	—	C-1/2	8-5/8	—	—	R
2	.520	1.632	D	8-7/8	—	—	R-1/2
2-1/4	—	—	D-1/2	9	.748	2.35	—
2-1/2	.536	—	E	9-1/8	—	—	S
2-3/4	—	—	E-1/2	9-3/8	—	—	S-1/2
3	.553	1.735	F	9-1/2	.764	—	—
3-1/8	—	—	F-1/2	9-5/8	—	—	T
3-3/8	—	—	G	10	.781	2.46	T-1/2
3-1/2	.569	—	—	10-1/4	—	—	U
3-5/8	—	—	G-1/2	10-1/2	.797	—	U-1/2
3-3/4	—	—	H	10-5/8	—	—	V
4	.585	1.835	H-1/2	11	.814	2.56	V-1/2
4-1/4	—	—	I	11-1/8	—	—	W
4-1/2	.601	—	I-1/2	11-3/8	—	—	W-1/2
4-5/8	—	—	J	11-1/2	.830	—	—
5	.618	1.943	J-1/2	11-5/8	—	—	X
5-1/8	—	—	K	11-7/8	—	—	X-1/2
5-3/8	—	—	K-1/2	12	.846	2.63	Y
5-1/2	.634	—	L	12-1/4	—	—	Y-1/2
5-7/8	—	—	L-1/2	12-1/2	.862	—	Z
6	.650	2.045	M	12-3/4	—	—	Z-1/2
6-1/4	—	—	M-1/2	13	.879	2.76	—
6-1/2	.666	—	N				

PLATINUM SOLDER MELTING TEMPERATURES

°C	°F	°C	°F	°C	°F
1000	1832	1300	2372	1600	2812
1100	2012	1400	2552	1700	3092
1200	2192	1500	2732	1650	3002

SILVER SOLDER MELTING TEMPERATURES

Hardness (.030 wire)	°C	°F
Hard	741	1365
Medium	691	1275
Soft	621	1150



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