

Materials

ALLOY	composition	melting point/ melting range	density	hardness**)		tensile strength**) Rm		elongation A annealed minimum	
				recrystal- lised annealed ± 10 HV	strain hardened ± 20 HV	annealed ± 10 % N/mm ²	strain hardened ± 20 % N/mm ²		
	% weight *)	°C	g/cm ³					%	
Fine silver	Ag 4N	Ag ≥ 99.99	961	10.5	35	80	160	300	35
Fine silver	Ag 3N7	Ag ≥ 99.97	961	10.5	35	80	160	300	35
Fine silver	Ag 4N200	≥ 99.97/200-300ppm Cu	961	10.5	35	80	160	300	35
Fine gold		Au ≥ 99.99	1064	19.3	30	60	140	200	35
Platinum		Pt ≥ 99.5	1772	21.4	50	95	140	280	25
Palladium		Pd ≥ 99.5	1554	12.0	50	140	200	400	20
AgNi0,15			960	10.5	45	90	200-240	310	35
AgNi0,2Mg0,22			955 - 960	10.4	50	100	210	410	25
Ag 970	AgCu3	Ag 97.0; Rest Cu	900 - 940	10.4	55	120	230	440	35
Ag 935		Ag 93.5; Rest Cu	820 - 910	10.4	70	140	260	520	30
Ag 925	sterling silver	Ag 92.5; Rest Cu	800 - 900	10.4	70	140	270	520	30
Ag 900	AgCu10	Ag 90.0; Rest Cu	780 - 875	10.3	80	130	300	530	30
Ag 835		Ag 83.5; Rest Cu	780 - 840	10.2	80	150	300	550	25
Ag 800	AgCu20	Ag 80.0; Rest Cu	780 - 820	10.2	90	150	330	560	25
Ag 500	AgCu50	Ag 50.0; Rest Cu	780 - 865	9.6	100	155	330	560	20
CuAg2			1050 - 1075	9.0	50	150	280	550	30
AgCd0 900/100	AgCd010		-	10.2	60	100	230	300	25
AgNi 900/100	AgNi10		-	10.2	50	110	250	400	30
AgNi 800/200	AgNi20		-	10.0	60	110	300	450	20
AgCu1,5Ni0,15			900 - 940	10.4	60	110	240	410	35
AgPd 700/300	AgPd30		1170 - 1210	10.9	75	155	320	570	20
Coloured gold 986/-		Au 98.6; Rest Cu	1040 - 1060	19.0	40	90	190	290	35
AuNi 950/50	AuNi5		995 - 1010	18.3	115	190	380	640	30
Coloured gold 900/-		Au 90.0; Rest Cu	935 - 965	17.3	80	140	270	450	25
Coloured gold 900/50		Au 90.0; Ag 5.0; Rest Cu	940 - 985	17.5	80	140	270	450	25
Coloured gold 750/150 (yellow)		Au 75.0; Ag 15.0; Rest Cu	890 - 920	15.5	130	210	500	800	35
Coloured gold 750/125 (yellow)		Au 75.0; Ag 12.5; Rest Cu	880 - 890	15.4	140	220	520	830	35
Coloured gold 750/90 (reddish)		Au 75.0; Ag 9.0; Rest Cu	870 - 890	15.3	140	240	550	900	35
Coloured gold 750/40 (red)		Au 75.0; Ag 4.0; Rest Cu	880 - 900	15.0	160	250	560	910	30
AuAgNi 710/260	AuAg26Ni3		1030 - 1040	15.3	85	155	370	570	30
Coloured gold 585/200 (yellow)		Au 58.5; Ag 20.0; Rest Cu	835 - 855	13.6	185	250	590	920	30
Coloured gold 585/415 (pale yellow)		Au 58.5; Ag 41.5	1015 - 1020	14.3	45	110	250	380	30
Coloured gold 375/75		Au 37.5; Ag 7.5; Rest Cu	870 - 890	10.9	105	220	510	870	35
Coloured gold 333/75		Au 33.3; Ag 7.5; Rest Cu	850 - 910	10.9	105	220	400	850	35
Pd 850	PdCu15	Pd 85.0; Rest Cu	1370 - 1410	11.3	105	240	320	850	35

*) alloys for hallmarking: content tolerances comply with hallmarking regulations

**) intermediate hardnesses on request

Further alloys on request