

AURIDENT CASTING GOLDS Composition, Physical and Mechanical Properties

Alloy	ADA Type	Color	Class.*	Weight %				Hardness Brinell / Vickers	Yield Strength, psi	Ultimate Tensile Strength, psi	Elongation %	Fusion Temperature °F / °C	Casting Temperature °F / °C	Specific Gravity gm / cm ³	Recommended Solders
				Au	Pt	Pd	Ag								
AM	II	Yellow		77.5	1.74	0	12.25	95 Q / 100 Q	22,000 Q	40,000 Q	25	1750 / 950	1875-1925 / 1025-1050	15.8	650
RH	III	Yellow		75.5	1.15	2.25	10.24	120 Q / 125 Q	27,000 Q	45,000 Q	21	1725 / 940	1875-1925 / 1025-1050	15.4	650
BH	III	Yellow		64.0	0.1	3.0	23.4	120 Q / 125 Q	25,000 Q	49,000 Q	18	1725 / 940	1825-1875 / 1000-1025	14.3	615
WH	III	Yellow		60.0	0.1	3.0	18.5	145 Q / 150 Q	34,000 Q	65,000 Q	15	1625 / 885	1825-1875 / 1000-1025	14.0	615
QH	III	Yellow		56.0	0.1	4.0	28.2	140 Q / 145 Q	53,000 Q	72,000 Q	35	1575 / 860	1775-1825 / 970-1000	13.6	585
GH	III	Yellow		52.0	0.1	8.0	21.5	140 Q / 225 H	62,000 H	95,000 H	12	1525 / 830	1750-1800 / 950-980	13.6	585
KH	III	Yellow		50.0	0.1	4.0	35.0	135 Q / 140 Q	43,000 Q	70,000 Q	25	1575 / 860	1775-1825 / 970-1000	13.2	585
MH	III	Yellow		46.0	0.1	6.0	40.0	125 Q / 130 Q	33,000 Q	60,000 Q	25	1575 / 860	1775-1825 / 970-1000	12.8	585
HH	III	Yellow		41.7	0	4.4	29.0	145 Q / 150 Q	32,500 Q	54,000 Q	12	1675 / 915	1825-1875 / 1025-1050	12.5	585
IH	III	Yellow		40.0	0.1	20.0	20.5	145 Q / 150 Q	50,000 Q	90,000 Q	10	1700 / 925	1850-1900 / 1010-1040	11.9	585
LH	III	Yellow		20.0	0	20.0	41.0	135 Q / 140 Q 180 H / 190 H	33,000 Q	62,000 Q	9	1575 / 860	1750-1800 / 950-980	11.3	585
WX	III, IV	Yellow		57.5	0.1	2.5	28.1	145 Q / 150 Q 230 H / 245 H	60,000 H	115,000 H	19 Q 4 H	1725 / 940	1800-1850 / 980-1010	13.8	585
JX	IV	White		2.0	0	27.0	55.0	140 Q / 145 Q 170 H / 180 H	40,000 H	71,000 H	23 Q 12 H	1725 / 940	1850-1925 / 1010-1050	10.5	585, 1400
YX	IV	Yellow		2.0	0.1	40.0	25.4	205 Q / 215 Q 205 H / 215 H	48,000 Q	55,000 Q	2 Q 2 H	1975 / 1080	2125-2175 / 1160-1190	9.6	585

Solders

Type	Melting Range, °F / °C
585	1355-1440 / 735-785
615	1385-1475 / 750-800
650	1420-1490 / 770-810
Yellow Silver Free (YSF)	1975-2010 / 1080-1100
Porcelain White Solder (PWS)	2020-2050 / 1104-1120
Porcelain Silver Free (PSF)	1960-1985 / 1071-1085
White Noble Solder (WNS)	2005-2100 / 1095-1150

All solders are furnished as 1/8" inch wide, one dwt. strips.

Platinum Foil

Available in .001" thickness

Palladium Foil

Available in .001" thickness

Scrap Refining

Aurident's efficient refining facilities provide you with maximum returns from your scrap at very nominal costs. Call us to receive a quote based on current market prices for precious metal scrap.

*Classifications

- IDENTALLOY® Council Classifications
- 60% or more noble metal content; 40% or more gold.
 - 25% or more noble metal content.
 - Less than 25% noble metal content

AURIDENT PORCELAIN ALLOYS Composition, Physical and Mechanical Properties

Alloy	Color	Class.*	Weight %				Hardness Brinell / Vickers	Yield Strength, psi	Ultimate Tensile Strength, psi	Elongation %	Fusion Temperature °F / °C	Casting Temperature °F / °C	Specific Gravity gm / cm ³	Thermal Expansion Coefficient, x10 ⁻⁶ / °C (20° - 600° C)	Recommended Solders
			Au	Pt	Pd	Ag									
Auribond 90	Yellow		90.0	5.8	1.6	1.2	115 / 120	27,000	40,000	20	1930 / 1055	2275-2400 / 1246-1315	18.9	14.9	YSF
Elite II	Yellow		88.0	9.5	0	0.75	160 / 170	51,000	67,000	12	2020 / 1105	2350-2425 / 1290-1330	19.4	14.4	YSF
Auribond-GP	Yellow		86.5	5.2	4.55	2.65	195 / 205	59,000	72,000	6	2150 / 1175	2450-2500 / 1340-1370	18.4	14.8	YSF
Windsor	Yellow		75.0	0.1	12.0	10.1	185 / 195	70,000	85,000	12	2130 / 1165	2375-2425 / 1300-1329	16.2	14.8	YSF
Summit	Yellow		74.2	4.1	7.3	11.0	170 / 180	55,000	80,000	12	2060 / 1130	2375-2425 / 1300-1330	16.3	15.1	YSF
Auritex-66	White		66.0	1.1	24.0	0	225 / 240	75,000	95,000	15	2070 / 1135	2375-2425 / 1300-1330	15.3	14.3	PWS, PSF, WNS
Auritex-WP	White		62.2	0.1	23.4	8.25	175 / 185	53,000	81,000	8	2320 / 1270	2550-2600 / 1400-1425	15.0	14.4	PWS, PSF, WNS
Auritex-XP	White		51.8	0.1	38.0	0	195 / 205	72,000	106,000	13	2320 / 1270	2550-2600 / 1400-1425	14.6	14.0	PWS, PSF, WNS
Auritex-40	White		40.0	0.1	40.0	10.0	220 / 230	78,000	110,000	16	2175 / 1190	2450-2500 / 1345-1370	13.2	14.2	PWS, PSF, WNS
Auritex-LP	White		40.0	0	32.0	20.5	210 / 220	75,000	90,000	8	2100 / 1150	2500-2550 / 1370-1400	13.2	14.4	PWS, PSF, WNS
Focus	White		2.5	0.1	70.3	9.7	280 / 265	82,000	85,000	4	2175 / 1190	2450-2500 / 1340-1370	10.7	14.5	PWS, YSF, PSF, WNS
Vision	White		2.0	0.1	80.0	0	250 / 265	143,000	160,000	10	2150 / 1175	2450-2500 / 1340-1370	11.1	14.0	PWS, YSF, PSF, WNS
Auritex-KP	White		2.0	0.1	51.5	37.5	235 / 250	55,000	81,000	5	2160 / 1180	2450-2500 / 1340-1370	11.1	14.8	PWS, PSF, WNS
Marathon	White		2.0	0	76.8	0	320 / 340	103,000	160,000	18	2060 / 1125	2450-2500 / 1340-1370	10.7	13.9	PWS, PSF, WNS
Auritex-ZP	White		0	0	60.0	29.0	175 / 185	65,000	95,000	20	2250 / 1230	2450-2550 / 1340-1400	11.1	14.8	PWS, PSF, WNS
Triumph	White		0	0.1	53.5	37.5	230 / 245	86,000	112,000	17	2175 / 1190	2400-2500 / 1315-1370	11.0	14.8	PWS, WNS
Clarity	White		0	0	49.7	40.0	265 / 280	85,000	95,000	4	2125 / 1160	2425-2475 / 1330-1355	10.8	15.4	PWS, WNS



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