

ALLOY	TYPE	NOBILITY	COLOR	Au	Pt	Pd	Ag	OTHER ELEMENTS	DENSITY (g/cm ³)	HARDNESS HARD/SOFT (HV)	ELONGATION HARD/SOFT	YIELD STRENGTH HARD/SOFT (psi)	PROOF STRESS HARD/SOFT (MPa)	MELTING RANGE (°F / °C)	SUGGESTED SOLDER
JA	I	High Noble	Yellow	83.3%			12.5%	Cu, Zn, Ir	16.4	70	45%	14,600	100	1735-1815F / 945-990C	650
JRVT*	II, III	High Noble	Yellow	77%		1%	13%	Cu, Zn, In, Ir	15.4	120	55%	35,300	245	1650-1755F / 900-955C	650
JRVT-PF*	II, III	High Noble	Yellow	77%	1%		13%	Cu, Zn, In, Ir	15.4	160 / 120	40% / 50%	41,500 / 31,000	300 / 225	1680-1725F / 915-940C	650
JB	II	High Noble	Yellow	75%		3%	15%	Cu, Zn, In, Ir	15.4	95	45%	24,700	170	1700-1825F / 925-995C	650
JC	III	High Noble	Yellow	75%		3%	11%	Cu, Zn, In, Ir	15.2	125	50%	39,500	270	1670-1760F / 910-960C	650
JIV-PF*	IV	High Noble	Yellow	72.5%	2.8%		10.2%	Cu, In, Zn, Ir	15.9	230 / 175	18% / 40%	91,350 / 57,375	630 / 395	1620-1670F / 880-910C	615
JIV	IV	High Noble	Yellow	68%	1%	6%	11%	Cu, Zn, In, Ir	14.5	250 / 185	20% / 30%	88,500 / 58,000	610 / 400	1680-1805F / 915-985C	615
JCB*	III	High Noble	Yellow	62%		3%	25%	Cu, Zn, In, Ir	14.2	165 / 135	26% / 50%	65,000 / 35,600	450 / 240	1625-1680F / 885-915C	615
JCBD	IV	High Noble	Yellow	60%		3.5%	21%	Cu, Zn, In, Ir	13.5	260 / 180	14% / 35%	99,500 / 50,500	695 / 350	1600-1660F / 870-905C	585
JLCB	IV	High Noble	Yellow	56%		4%	26%	Cu, Zn, In, Ir	13.7	260 / 195	10% / 13%	104,000 / 76,000	715 / 520	1570-1680F / 855-915C	585
STATE	III	High Noble	Yellow	40%		20%	18%	Cu, Zn, In	12.6	190	6%	49,310	340	1450-1815F / 790-990C	615
JYE	IV	Noble	Yellow	52%		5%	24%	Cu, Zn, In, Ir	12.8	280 / 245	10% / 23%	111,000 / 87,600	775 / 605	1545-1635F / 840-890C	615
J-3	IV	Noble	Yellow	50%		4%	29.5%	Cu, Zn, In, Ir	12.9	230	13%	91,500	630	1545-1625F / 840-885C	585
JMC*	III	Noble	Yellow	47%		6%	39%	Cu, Zn, Ir	12.9	230 / 170	14% / 22%	76,000 / 47,000	525 / 325	1645-1810F / 895-990C	585
SL-40	III	Noble	Yellow	40%		5%	45%	Cu, Zn, Ir	12.7	140	18%	71,200	490	1565-1750F / 850-955C	585
CASTELL	III	Noble	Yellow	20%		20%	38%	In, Zn, Cu	11.0	175	8%	40,800	280	1560-1735F / 850-945C	615
JWG	III	Noble	White	2%		25%	69.5%	In, Zn	10.6	160	16%	42,400	295	1960-2075F / 1070-1135C	1400
JWE	III	Noble	White			25%	71.5%	In, Zn	10.6	160	15%	43,500	300	1975-2175F / 1080-1190C	1400
J-7	III	Noble	White			25%	59.5%	Cu, Zn, Ru	10.1	235	20%	57,700	400	1680-1810F / 915-985C	1400

* Laser wire is available for this alloy.

Jensen's Solders

* Laser wire is available for this solder.

CROWN, BRIDGE, AND POST-CERAMIC SOLDERS

SOLDER	COLOR	Au	Pd	Ag	MELTING RANGE
650 Fine*	Yellow	65%		14%	1400-1490F / 760-810C
615 Fine*	Yellow	61.5%		17.5%	1410-1515F / 765-825C
585 Fine*	Yellow	58.5%		19.5%	1390-1525F / 745-830C
1400*	White			73%	1335-1400F / 725-760C

PRE-CERAMIC SOLDERS

SOLDER	COLOR	Au	Pd	Ag	MELTING RANGE
LX*	Yellow	78.5%	3%	12.9%	1880-1980F / 1027-1082C
PWS*	White	71.5%	15%	10%	1960-2100F / 1070-1150C
P-80*	Yellow	63%	9%	25%	1920-2040F / 1050-1115C
SPIRIT*	White	63%	7%	27%	1880-1985F / 1025-1085C
CPS*	Yellow	60%	4%	33%	1825-1927F / 996-1053C
SATELLITE*	Yellow	72.5%		10.2%	1620-1670F / 880-910C



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RVT TECHNIQUE WIRE	28 Gauge
PLATINUM FOIL	0.001", 0.0005"

PLATE GOLD	31 Gauge, 32 Gauge
BROWN FLUORIDE FLUX	

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ALLOY	NOBILITY	COLOR	Au	Pt	Pd	Ag	OTHER ELEMENTS	DENSITY (g/cm ³)	HARDNESS (HV) AFTER PORCELAIN FIRING	ELONGATION	YIELD STRENGTH (psi)	PROOF STRESS (MPa)	MELTING RANGE (°F / °C)	COEFFICIENT OF THERMAL EXPANSION From 25°C To 500°C From 25°C To 600°C	SUGGESTED SOLDER PRE/POST
AZTEC	High Noble	Yellow	99.9%				In	19.3	22	45%	~3,500	~24	1945F / 1063C	15.3 / 15.5	650
CLASSIC IV*	High Noble	Yellow	88%	9.5%		<1%	In, Fe, Re	19.0	175	11%	55,800	385	1930-2110F / 1055-1155C	14.2 / 14.4	CPS / 650
JP-II	High Noble	Yellow	87%	7%	4.5%		Sn, In, Fe, Re	18.5	155	17%	50,700	350	1990-2190F / 1085-1200C	14.2 / 14.4	Spirit / 615
PREMIERE*	High Noble	Yellow	85%	12.4%			Zn, In, Mn, Rh, Re	18.8	210	9%	71,790	495	1960-2155F / 1070-1180C	14.3 / 14.6	CPS / 615
ENDURANCE*	High Noble	Yellow	84.5%	8%	5%		In, Fe, Re	18.2	215	7%	74,500	515	2005-2185F / 1100-1195C	14.1 / 14.4	Spirit / 615
JP-80*	High Noble	Yellow	75%	3%	10%	10%	In, Re	16.0	195	20%	55,900	385	2170-2260F / 1190-1235C	14.3 / 14.6	P-80 / 1400
OVERTURE*	High Noble	White	74.5%	3%	15.2%	5%	Sn, Re, Ru	16.6	230	9%	72,500	500	2130-2300F / 1165-1260C	14.0 / 14.2	PWS / 1400
EQUITY	High Noble	White	68%		22%	3%	Re, Ru, In	15.4	240	11%	79,700	550	2110-2280F / 1155-1250C	14.2 / 14.6	P-80 / 1400
SENTRY	High Noble	White	55.1%		26.2%	12.2%	Re, In	14.4	245	10%	76,400	525	2175-2335F / 1190-1280C	14.4 / 14.7	PWS / 615
FOUNDATION*	High Noble	White	51.9%		34%	5%	In, Zn, Re	13.9	225	30%	70,050	485	2150-2335F / 1175-1280C	14.1 / 14.4	PWS / 1400
JP-I	High Noble	White	51.5%		38.5%		In, Ga, Ru	14.0	240	25%	73,000	505	2075-2220F / 1135-1215C	13.8 / 14.1	Spirit / 1400
JP-I-A	High Noble	White	48%		38.5%		Cu, Ga, In, Ru, Re	13.6	305	25%	84,400	580	2050-2255F / 1120-1235C	13.6 / 13.9	Spirit / 1400
JPW	High Noble	White	49%		31.5%	15%	Sn, Re	13.6	260	12%	80,600	555	2020-2325F / 1105-1275C	14.0 / 14.6	Spirit / 1400
SECURITY	High Noble	White	40%		40%	9%	In, Zn, Sn, Re	13.0	255	20%	78,230	540	2120-2300F / 1160-1260C	14.2 / 14.5	PWS/ 1400
INTEGRITY*	Noble	White	6%		75%	7%	In, Ga, Ru, Re	10.9	250	30%	79,200	545	2050-2375F / 1120-1300C	13.8 / 14.1	Spirit / 1400
PULSE N3	Noble	White	3%		79.7%	4%	In, Ga, Zn, Ru, Re	11.5	250	32%	79,325	545	2075-2390F / 1135-1310C	13.8 / 14.0	P-80 / 1400
STABILITY	Noble	White	2%		77%		Cu, Ga, In, Zn, Ru	10.7	300	20%	103,230	710	2050-2210F / 1120-1210C	13.5 / 13.9	Spirit / 1400
ADVANTAGE	Noble	White	1%	1%	77%		Cu, In, Ga, Ru	10.7	260	33%	85,450	590	2030-2300F / 1110-1260C	13.5 / 13.9	Spirit / 1400
SOLUTION	Noble	White			78%		Cu, Ga, In, Zn, Ru	10.7	305	32%	106,210	730	2030-2210F / 1110-1210C	13.5 / 13.9	Spirit / 1400
SUPERIOR	Noble	White			62.5%	24.5%	Sn, In, Zn, Re, Ru	11.0	220	37%	69,000	475	2175-2330F / 1190-1275C	14.2 / 14.6	PWS / 1400
SUPERIOR PLUS	Noble	White	2%		62.5%	22%	Sn, In, Zn, Re, Ru	11.1	215	30%	68,860	475	2175-2330F / 1190-1275C	14.2 / 14.6	PWS / 1400
JP-5	Noble	White			53.5%	37.5%	Sn, Zn, Ru	11.0	250	16%	74,500	515	2150-2275F / 1180-1245C	14.9 / 15.1	PWS / 1400
JP5 w/Au	Noble	White	2%		53.5%	35.5%	Sn, Zn, Ru	11.0	250	14%	87,500	605	2155-2310F / 1180-1265C	14.8 / 15.2	PWS / 1400

* Laser wire is available for this alloy.

Jensen's Universal Alloys

ALLOY	TYPE	NOBILITY	COLOR	Au	Pt	Pd	Ag	OTHER ELEMENTS	DENSITY (g/cm ³)	HARDNESS HARD/SOFT (HV)	ELONGATION HARD/SOFT	YIELD STRENGTH HARD/SOFT (psi)	PROOF STRESS HARD/SOFT (MPa)	MELTING RANGE (°F / °C)	COEFFICIENT OF THERMAL EXPANSION From 25°C To 300°C From 25°C To 600°C	SUGGESTED SOLDER
GALILEO*	IV	High Noble	Yellow	74.3%	7%	3%	11%	In, Zn, Ir	16.4	240 / 230	6% / 10%	63,820 / 58,010	440 / 400	1740-1940F / 950-1060C	16.2 / 16.5	650 for C&B Satellite for pre-LF ceramic 1400 for post-LF ceramic
GALILEO-PF	IV	High Noble	Yellow	75%	10%		11.9%	Zn, Rh, Ir	16.9	200 / 170	10% / 13%	62,360 / 50,760	430 / 350	1830-1960F / 1000-1070C	15.8 / 15.9	