

JENSEN DENTAL ALLOY

EXPECT TO SEE THE DIFFERENCE



THE DIFFERENCE



JENSEN DENTAL ALLOYS are manufactured with raw materials of exceptional purity providing you with consistent and dependable alloys. We approach alloy design carefully and with extraordinary concern for products that work perfectly every time. Our conservative formulations result in fewer remakes, reduced porcelain gassing and increased efficiency and profitability in your laboratory. Jensen Dental Alloys are manufactured in highly controlled lots that are x-ray analyzed and quality checked at each production stage guaranteeing you ounce-to-ounce consistency.

Jensen Dental realizes that selecting the right alloy is only the beginning. A partnership with Jensen guarantees technical support that is second-to-none, and an extraordinary commitment to innovative education designed to provide immediate solutions to assist you in operating your laboratory at optimal performance.



JENSEN CROWN & BRIDGE ALLOYS

800-243-2000

www.jensendental.com

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
JRVT*	2, 3	High Noble	Yellow	77%		1%	13%	Cu, Zn, In, Ir	15.4	120	55%	35,300	245	1650-1755F / 900-955C	650
JRVT-PF*	2, 3	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	2	High Noble	Yellow	75%		3%	15%	Cu, Zn, In, Ir	15.4	95	45%	24,700	170	1700-1825F / 925-995C	650
JC	3	High Noble	Yellow	75%		3%	11%	Cu, Zn, In, Ir	15.2	125	50%	39,500	270	1670-1760F / 910-960C	650
JIV-PF*	4	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
STATE	3	High Noble	Yellow	40%		20%	18%	Cu, Zn, In	12.6	190	6%	49,310	340	1450-1815F / 790-990C	615
JCB*	3	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	4	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	4	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

JYE	4	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	4	Noble	Yellow	50%		4%	29.5%	Cu, Zn, In, Ir	12.9	230	13%	91,500	630	1545-1625F / 840-885C	585
JMC*	3	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	3	Noble	Yellow	40%		5%	45%	Cu, Zn, Ir	12.7	140	18%	71,200	490	1565-1750F / 850-955C	585
CASTELL	3	Noble	Yellow	20%		20%	38%	In, Zn, Cu	11.0	175	8%	40,800	280	1560-1735F / 850-945C	615
BLAZE	3	Noble	Yellow	5%		32%	32%	In, Zn	10.3	175	6%	40,320	278	1625-2040F / 885-1115C	615
JWG	3	Noble	White	2%		25%	69.5%	In, Zn	10.6	160	16%	42,400	295	1960-2075F / 1070-1135C	1400
JWE	3	Noble	White			25%	71.5%	In, Zn	10.6	160	15%	43,500	300	1975-2175F / 1080-1190C	1400
J-7	3	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 SOLDERS

CROWN, BRIDGE & 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

MISCELLANEOUS

PLATINUM FOIL: 0.001", 0.008" PLATE GOLD: 32 Gauge



JENSEN PORCELAIN ALLOYS

800-243-2000

www.jensendental.com

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	CPS / 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
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
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%	In, Re, Ru	15.4	240	11%	79,700	550	2110-2280F / 1155-1250C	14.2 14.6	P-80 / 1400
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
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
VERITY	High Noble	White	45%		44.2%		In, Sn, Ga, Re	13.8	250	20%	81,221	560	2066-2345F / 1130 - 1285C	13.8 14.1	P-80/615
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
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
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	35%	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

*Laser wire is available for this alloy.

JENSEN 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 500°C From 25°C To 600°C	SUGGESTED SOLDER
GALILEO*	4	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 1400 for post-LF ceramic

