

Porcelain Alloys

Jensen Dental's Wax Conversion Chart

Alloy Name	Density (g/cm ³)	Amount of Alloy Needed (dwts)											
		0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	2.00	3.00
AZTEC	19.3	1.3	2.6	3.9	5.1	6.4	7.7	9.0	10.3	11.6	12.9	25.7	38.6
CLASSIC IV	19.0	1.3	2.5	3.8	5.1	6.3	7.6	8.9	10.1	11.4	12.7	25.3	38.0
JP-II	18.5	1.2	2.5	3.7	4.9	6.2	7.4	8.6	9.9	11.1	12.3	24.7	37.0
PREMIERE	18.8	1.3	2.5	3.8	5.0	6.3	7.5	8.8	10.0	11.3	12.5	25.1	37.6
ENDURANCE	18.2	1.2	2.4	3.6	4.9	6.1	7.3	8.5	9.7	10.9	12.1	24.3	36.4
JP-80	16.0	1.1	2.1	3.2	4.3	5.3	6.4	7.5	8.5	9.6	10.7	21.3	32.0
OVERTURE	16.6	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.9	10.0	11.1	22.1	33.2
EQUITY	15.4	1.0	2.1	3.1	4.1	5.1	6.2	7.2	8.2	9.2	10.3	20.5	30.8
SENTRY	14.4	1.0	1.9	2.9	3.8	4.8	5.8	6.7	7.7	8.6	9.6	19.2	28.8
FOUNDATION	13.9	0.9	1.9	2.8	3.7	4.6	5.6	6.5	7.4	8.3	9.3	18.5	27.8
JP-I	14.0	0.9	1.9	2.8	3.7	4.7	5.6	6.5	7.5	8.4	9.3	18.7	28.0
JPW	13.6	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.3	8.2	9.1	18.1	27.2
JP-I-A	13.6	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.3	8.2	9.1	18.1	27.2
VERITY	13.8	0.9	1.8	2.8	3.7	4.6	5.5	6.4	7.4	8.3	9.2	18.4	27.6
SECURITY	13.0	0.9	1.7	2.6	3.5	4.3	5.2	6.1	6.9	7.8	8.7	17.3	26.0
INTEGRITY	10.9	0.7	1.5	2.2	2.9	3.6	4.4	5.1	5.8	6.5	7.3	14.5	21.8
PULSE N3	11.5	0.8	1.5	2.3	3.1	3.8	4.6	5.4	6.1	6.9	7.7	16.3	23.0
STABILITY	10.7	0.7	1.4	2.1	2.9	3.6	4.3	5.0	5.7	6.4	7.1	14.3	21.4
ADVANTAGE	10.7	0.7	1.4	2.1	2.9	3.6	4.3	5.0	5.7	6.4	7.1	14.3	21.4
SOLUTION	10.7	0.7	1.4	2.1	2.9	3.6	4.3	5.0	5.7	6.4	7.1	14.3	21.4
SUPERIOR	11.0	0.7	1.5	2.2	2.9	3.7	4.4	5.1	5.9	6.6	7.3	14.7	22.0
SUPERIOR PLUS	11.1	0.7	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4	14.8	22.2
JP-5	11.0	0.7	1.5	2.2	2.9	3.7	4.4	5.1	5.9	6.6	7.3	14.7	22.0
JP5 w/Au	11.0	0.7	1.5	2.2	2.9	3.7	4.4	5.1	5.9	6.6	7.3	14.7	22.0

** Total wax weight should include the pattern and all sprues.

Formula

Pattern Wax Weight(g) X Density of Alloy (g/cm³) ÷ 1.5 = Weight of Alloy in (dwts) needed for casting

Conversions

To convert grams to dwts: Multiply by 0.64301

To convert dwts to grams: Multiply by 1.555



Crown & Bridge Alloys

Jensen Dental's Wax Conversion Chart

Alloy Name	Density (g/cm ³)	Pattern Wax Weight (grams)**											
		0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	2.00	3.00
Amount of Alloy Needed (dwts)													
JA	16.4	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.7	9.8	10.9	21.9	32.8
JRVT	15.4	1.0	2.1	3.1	4.1	5.1	6.2	7.2	8.2	9.2	10.3	20.5	30.8
JRVT-PF	15.4	1.0	2.1	3.1	4.1	5.1	6.2	7.2	8.2	9.2	10.3	20.5	30.8
JB	15.4	1.0	2.1	3.1	4.1	5.1	6.2	7.2	8.2	9.2	10.3	20.5	30.8
JC	15.2	1.0	2.0	3.0	4.1	5.1	6.1	7.1	8.1	9.1	10.1	20.3	30.4
JIV-PF	15.9	1.1	2.1	3.1	4.1	5.3	6.4	7.4	8.5	9.5	10.6	21.2	31.8
JIV	14.5	1.0	1.9	2.9	3.9	4.8	5.8	6.8	7.7	8.7	9.7	19.3	29.0
JCB	14.2	0.9	1.9	2.8	3.8	4.7	5.7	6.6	7.6	8.5	9.5	18.9	28.4
JCBD	13.5	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1	9.0	18.0	27.0
JLCB	13.7	0.9	1.8	2.7	3.7	4.6	5.5	6.4	7.3	8.2	9.1	18.3	27.4
STATE	12.6	0.8	1.7	2.5	3.4	4.2	5.0	5.9	6.7	7.6	8.4	16.8	25.2
JYE	12.8	0.9	1.7	2.6	3.4	4.3	5.1	6.0	6.8	7.7	8.5	17.1	25.6
J-3	12.9	0.9	1.1	2.6	3.4	4.3	5.2	6.0	6.9	7.7	8.6	17.2	25.8
JMC	12.9	0.9	1.7	2.6	3.4	4.3	5.2	6.0	6.9	7.7	8.6	17.2	25.8
SL-40	12.7	0.8	1.7	2.5	3.4	4.2	5.1	5.9	6.8	7.6	8.5	16.9	25.4
CASTELL	11.0	0.7	1.5	2.2	2.9	3.7	4.4	5.1	5.9	6.6	7.3	14.7	22.0
JWG	10.6	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.7	6.4	7.1	14.1	21.2
JWE	10.6	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.7	6.4	7.1	14.1	21.2
J-7	10.1	0.7	1.3	2.0	2.7	3.4	4.0	4.7	5.4	6.1	6.7	13.5	20.2

** Total wax weight should include the pattern and all sprues.

Universal Alloys

Alloy Name	Density (g/cm ³)	Pattern Wax Weight (grams)**											
		0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	2.00	3.00
Amount of Alloy Needed (dwt's)													
GALILEO	16.4	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.7	9.8	10.9	21.9	32.8
GALILEO-PF	16.9	1.1	2.3	3.4	4.5	5.6	6.8	7.9	9.0	10.1	11.3	22.5	33.8

** Total wax weight should include the pattern and all sprues.

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