JLCB

HIGH NOBLE YELLOW TYPE 4 CROWN & BRIDGE ALLOY

JLCB is an economical high noble crown and bridge alloy with 56% Au. Classified as a Type 4 alloy, JLCB is excellent for restorations subject to high stress such as bridges with three or more units and partial dentures. Described as a versatile alloy, JLCB can be bench cooled for partials and longer bridges, and water quenched for Type IV applications.

PROPERTIES		
Melting Range	1570° to 1680°F	F (855° to 915°C)
Density		13.7 g/cm ³
Grain Size		37 microns
	HARDENED	SOFTENED
Hardness	260 HV	195 HV
Tensile Elongation	10%	13%
Tensile Yield Strength	104,000 psi (715 MPa)	76,000 psi (520 MPa
Ultimate Tensile Strength	112,000 psi (770 MPa)	85,300 psi (585 MPa

PROCESSING TECHNIQUE

- **SPRUING** The indirect method is recommended for multi-units. Use an 8 gauge runner bar with 10 gauge connectors. If preferred, the direct method may be used on both single units and small bridges. Use a 10 gauge sprue 1/4" (6mm) to 3/8" (9mm) long. Sprues longer than 3/8" (9mm) should have a reservoir 1/16" (1.5mm) from pattern. Patterns should be a maximum of 1/4" (6mm) from top of investment.
- **INVESTMENT AND** Either gypsum or phosphate bonded investment may used following the manufacturer's instructions. The burnout temperature should be at least 900°F (480°C) and should not exceed 1200°F (650°C).
- MELTING ANDExtra winds of the casting arm are not required. Gas/compressed air or gas/oxygenCASTINGflame with 5 psi gas pressure and 10 psi oxygen pressure is recommended. JLCB
will fully puddle and form a ball before it is ready to cast. DO NOT OVERHEAT. The
casting temperature is 1775°F (970°C). Bench cool to obtain the hardened condition.
Water quench from a dull red heat to obtain the softened condition.
- **DEVESTING AND** Blast with aluminum oxide to remove investment particles and oxidation. Finish and polish using standard techniques.

SOLDER AND FLUX Solder: 585 Fine Solder Flux: Brown Fluoride Flux

5007Y r1



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