

CB-50Y

COMPOSITION					
Au	Pt	Pd	Ag	Cu	Other
50	0	4.5	28.5	15	Zn In Ir

Yellow Type III Alloy



APPLICATION

Onlays, 3/4 Crowns, Full Cast Crowns, Short & Long Span Bridges

SOLDER 450

TECHNICAL DATA

	<u>SOFT</u>	<u>HARD</u>
Vickers Hardness:	225	275
Proof Stress:	79,000 psi	99,500 psi
Tensile Strength:	93,000 psi	112,000 psi
Elongation:	12%	6
Melting Range:	1560-1650°F / 850-900°C	
Casting Temperature:	1800°F / 980°C	
Density g/cm ³ :	13.1	



TECHNICAL INSTRUCTIONS

WAXING: Trim die and define margins. Apply die spacer. Lubricate. Wrap, dip, build up, or vacu-form a coping. Build up with low shrinkage pattern wax. Contour and carve. Trim margins. Smooth polish completed wax up with silk cloth or cotton swab. Sprue.

SPRUNG: *Direct:* Attach 8-10 gauge wax sprue with reservoirs to the heaviest portion of the pattern. Keep pattern(s) 1/4" from top of ring.

Indirect: Attach 10 gauge wax sprue to the heaviest portion of the pattern(s). Trim to 1/8" and attach a 6 gauge runner bar. Build up crucible former with soft wax and attach runner bar to crucible former with 2 or 3, 8 gauge gate sprues.

INVESTING: Use either a gypsum based or a high heat phosphate-bonded investment as per the manufacturer's recommended instructions.

BURNOUT: *Single Stage:* For gypsum based investment, room temperature to 1250°F (677°C) at slow-medium rate.
For phosphate-bonded investment, room temperature to 1300°F (704°C) at slow-medium rate.

Two Stages: 1. Room temperature to 800°F (427°C) at 20°F/min.
2. 800°F (427°C) to 1200-1250°F (647-677°C) at 30°F/min.

After reaching 1200-1250°F (649-677°C) heat soak for at least one hour. Add 15-20 minutes soak time for each additional ring.

MELTING: Multi-orifice gas/oxygen torch or via induction.

CASTING: Allow metal to pool to a shiny mirror surface. Rock crucible gently to insure fluidity. Cast. Bench cool to room temperature.

CLEANING: Blast clean with 50 micron aluminum oxide. Clean in distilled water using ultrasonic cleaner for 10 minutes.

FINISHING: Use high quality aluminum oxide barrel stones, carbides or sintered diamond points to achieve a smooth scratch-free surface. Blast with 50 micron aluminum oxide. Rubber wheel and polish via conventional methods.

800-631-5599

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