

MADE IN USA

CB-30TM MICRO FIRE

**A Micro-Fine Grain, "Carbon-Free" Crown & Bridge Investment
for Producing Ultra-Smooth Castings**

CMP INDUSTRIES' new CB-30 "MICROFIRE" Crown & Bridge Investment is the result of years of intense scientific testing. It is a super-fine phosphate-bound, cristobalite investment ideal for use with precious, semi-precious and non-precious C & B alloys. *MICROFIRE's* meticulously formulated compound provides the dental technician with a wide range of burnout temperatures . . . **READY IN JUST 20 MINUTES!** Recommended for use with CMP's advanced ceramic, non-precious crown and bridge alloys: NPX-III, T-3 (Nickel/Chrome) and NobilCeram (Chrome/Cobalt) formulas. **Smooth . . . Accurate . . . Strong . . . Reliable . . . that's CB-30 "MICROFIRE" Investment.**

Specifications

Working Time:	4 Minutes
P to L Consistency:	100 gm : 25 cc
Setting Expansion:	0.6%
Thermal Expansion:	1.4%
Burnout Range:	1300°-1800°F (704°-982°C)

**ALLOWS 1500°- 1700°F (816°- 927°C) FURNACE ENTRY
READY FOR BURNOUT IN JUST 20 MINUTES
RINGLESS CASTING SYSTEM FRIENDLY
YIELDS ULTRA-SMOOTH CASTINGS**

DIRECTIONS

- 1) Attach sprue to wax pattern and mount on sprue former base.
- 2) Apply CB-30 Debubbler to pattern and shake-off excess.
- 3) For metal ring use, line casting ring with a strip of asbestos-free liner. Dip lined casting ring in water and shake out excess. Position ring in sprue former base.

- 4) Recommended liquid dilution for castings:

	<i>Special Liquid</i>	<i>Water</i>
Base Ceramic Alloys:	50-80%	20-50%
Semi-Precious Alloys:	60-80%	20-40%
Gold Alloys:	50-75%	25-50%

These ratios also apply for use with high-expansion liquid.

- 5) Recommended powder to liquid ratio:

**100 Grams Powder : 25.0 cc Liquid
90 Grams Powder : 22.5 cc Liquid
60 Grams Powder : 15.0 cc Liquid**

- 6) Wet the bowl and shake out excess water. Pour liquid into mixing bowl. Add CB-30 "MICROFIRE" powder to liquid. Hand spatulate 30 seconds until the investment is wet. Vacuum mix for 45-60 seconds, then invest.

- 7) Invest by pouring a thin stream of investment directly into the ring, pausing only to see if a bubble-free film of investment has covered the entire pattern surface. If not, either blow on the surface to break the bubble or use a soft artist's brush, then continue to pour. *Avoid vibration.*
 - 8) Allow CB-30 "MICROFIRE" Investment mold to set on bench for 1 hour. For a ringless casting system, remove mold after 1/2 hour and let bench set for 1/2 extra hour.
 - 9) Place molds in a burnout furnace at room temperature. *Burnout according to alloy manufacturer's recommendations.* Raise the temperature to the desired "final" temperature at a rate of **15°-20°F (5°-10°C) per minute.** Heat-soak at the final temperature for 1 hour. A staged burnout is also possible.
 - 10) ***If rapid burnout is required,*** use wax sprues only. Place the CB-30 "MICROFIRE" molds in a 1500°-1700°F (816°-927°C) furnace after 20 minutes of bench set. Increase or decrease the furnace temperature **slowly** to *alloy manufacturer's recommended temperature.* Hold for 30 minutes at maximum temperature, then cast.
- Note:** If solid plastic sprues are used, proceed as described in step #9.
- 11) After casting, allow mold to cool. Submerge mold in water for a few minutes (protects you from breathing undesirable dust). Use a pair of plaster tongs to remove the casting and then blast with aluminum oxide.

CB-30 "MICROFIRE" Investment Product Line

Stock No. 2101:	100 Pouch Kit (90 Gm Powder w/Liquid)
Stock No. 2100:	10 Lb (4.54 Kg) Powder & 2-16 Oz (473 cc) Liquid
Stock No. 2104:	25 Lb (11.4 Kg) Powder & 96 Oz (2,839 cc) Liquid
Stock No. 2107:	100-90 Gm Pouches Only
Stock No. 2021:	10 Lb (4.54 Kg) Powder Only
Stock No. 2021-25:	25 Lb (11.4 Kg) Powder Only
Stock No. 2103:	16 Oz (473 cc) Liquid Only (Freeze Stable)
Stock No. 2105:	32 Oz (946 cc) Liquid Only (Freeze Stable)
Stock No. 2102:	96 Oz (2,839 cc) Liquid Only (Freeze Stable)
Stock No. 2817:	CB-30 Debubbler

WARNING

This Product Contains Free Silica

Inhalation of dust may be harmful to your health and excessive inhalation will increase the risk of serious respiratory disease (silicosis).
Take appropriate protective measures to avoid breathing dust.
Immediate clean-up of spills is highly recommended.



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