Multi-Vest®
High Heat Casting Investment

Contents: 50 lbs. (22.6 kg)
For Dental Use Only

Precaution: Inhalation of powder may be hazardous to your health.
For casting alloys of the cobalt-chromium system and other high fusing precious and non-precious alloys.

Directions:
Duplicate master cast with an all purpose duplicating material.

Cast - Mix 12cc water with 100 grams of powder. (MULTI-VEST Liquid increases the setting and thermal expansion of the investment. For large or unusually complicated castings, it may be necessary to use MULTI-VEST® Investment liquid. The use of the liquid will depend entirely on what the technician considers an accurately fitting casting.) Add the powder to the water and mechanically spatulate for about 20 seconds. Vibrate mix into duplicating material and allow to set from 45 minutes to an hour.

Painting and Investing - The wax and plastic patterns must be thoroughly cleaned with a detergent or commercially available surface tension reducing agent. Paint pattern with investment mixed in the ratio of 14cc water to 100 grams investment. Allow to set. Invest the painted pattern with investment mixed in the ratio of 14cc water to 100 grams investment. A vacuum technique may be used. Either a one piece casting ring or a split ring, removable type, may be used. It is not necessary to have a casting ring around the investment during burn-out or casting.

Wax Elimination - Allow flask to set one hour before burn-out. If allowed to set longer, soak flask in water approximately 10 minutes before burn-out. Place flask in cold furnace and heat to 500°F in one hour; take full hour to reach 1800°F. Raise to 1800°F within the next hour. Heat soak for an additional one-half hour or longer; cast as usual. Dry cast in oven at 200°F for approximately one hour. Use a rosin or beeswax dip at a temperature of approximately 200°F, or a cast spray, to prepare cast surface for plastic patterns. Replace casts in drying oven to absorb any surplus rosin or beeswax on cast surface. Proceed with wax-up.

Properties:
W/P ratio - 12/100
Pouring Time - 3 1/2 - 4 1/2 minutes
Setting Time - 4 1/2 - 5 1/2 minutes
Compression Strength - 1800 PSI, 30 minutes (126 kg/cm²)

Storage: Investment materials are subject to deterioration when exposed to the atmosphere. Store this product at 59°F to 86°F. Keep container tightly closed once seal is broken to protect contents from moisture and high humidity.

WARNING
Contains respirable crystalline silica (RCS). Do not breathe dust. May cause delayed lung injury (silicosis, pneumoconiosis). The I.A.R.C. (International Agency for Research on Cancer) reports (1988 annual report on Carcinogens) that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the forms of quartz or cristobalite from occupational sources. The NTP (National Toxicology Program) reports (Sixth annual report on Carcinogens) that RCS is known to be a carcinogen based on sufficient evidence from studies in humans indicating a causal relationship between exposure to RCS and increased lung cancer rates in workers exposed to crystalline silica dust. Follow OSHA Safety and Health Standards for crystalline silica. See Material Safety Data Sheet (MSDS) for detailed information.

PROPERTY CODES

Health 3
Prolonged unprotected overexposure may result in non-reversible silicosis. Sufficient evidence shows crystalline silica causes cancer in humans.

Flammability 0
Non-flammable

Reactivity 0
Non-reactive

Personal Protection
Use NIOSH/MSHA/OSHA approved respirator.

Dust Respirator
See Material Safety Data Sheet (MSDS) for Detailed Information.

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Lot No.
Exp. Date