

PoliDent

since 1958



INVESTMENT MATERIAL

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# poliVEST



Carbon-free phosphate bonded precision casting investment for crown and bridgework of all dental alloys by quick or progressive heating procedures

Characterictis:	Long processing time (19 – 24°C) 4 - 7 min Optimal flow characteristics make investing easier and help to prevent unwanted air bubbles. Expansion is precisely regulated by varying the concentration of the expansion liquid with water. Fast heating up out reduces the processing time and increases productivity. Easy separation from the casting object after cooling.
Indications:	crowns and bridgeworks
Packing:	05844 Polivest powder - 6 kg (40 x 150 g) 05825 Polisol universal liquid - II bottle



## ADVANTAGES:

- The absence of carbon assures compatibility with all dental alloys, especially non-precious and Palladium alloys
- Easy mixing because of optimal wettability
- Optimal flow characteristics make investing easier and help to prevent unwanted air bubbles
- Adequately long processing time, several objects can be thus invested in one mixing operation
- Expansion is precisely regulated by varying the concentration of the expansion liquid with water
- Precisely regulated expansion ensures excellent fit of castings
- High thermal stability allows investment material to be heated at final temperature just 20 minutes after mixing
- Rapid burn out reduces the processing time and increases productivity
- Easy separation from the casting object after cooling
- Low oxidation on the casting surface makes sand blasting easier
- A super-fine particle size ensures extremely smooth casting requing only a minimum metal finishing

## Physical data:

Mixing ratio (powder/ liquid).....	100 g/ 24 ml
Fluidity.....	130 ±5 mm
Processing time (22 - 24°C).....	5 - 6 min
Initial setting time (22 - 24°C).....	9 - 10 min
Thermal expansion.....	1,0 ± 0,1%
Compressive strength.....	4 MPa

# poliTERM speed



A fine grained model casting investment material for fast burn out as well as for traditional slow heating processes. It is suitable for partial dentures and high-quality combination works

Characterictis:	Equally suitable for gel and silicone duplication. Conventional or rapid heating up with ideal expansion values. Rapid preheating: the insertion temperature is 600°C, this results in time savings compared to investment materials that have to be heated conventionally.
Indications:	partial dentures, high-quality combination work
Packing:	05887 Politerm speed powder - 8 kg (20 x 400 g) 05825 Polisol liquid - II bottle



## ADVANTAGES:

- Ideal flow properties, even extremely fine and delicate model sections are filled properly
- Equally suitable for gel and silicone duplication
- Extremely smooth, hard and fracture resistant duplicate model even with gel duplication, no hardening necessary in the case of the silicone duplication
- Conventional or rapid heating up with ideal expansion values
- Rapid preheating: the insertion temperature is 600 °C, this results in time savings compared to investment materials that have to be heated conventionally
- The cast objects can be deflasked and blasted quickly
- Exact detail reproduction, high accuracy of fit with extremely smooth casting surfaces

## Physical data:

Mixing ratio (powder/ liquid).....	100 g/ 18 ml
Fluidity.....	130 ± 5 mm
Processing time (22-24°C).....	3 - 4 min
Initial setting time (22 - 24°C).....	5 - 6 min
Thermal expansion.....	1,0 ± 0,1%
Compressive strength.....	20 MPa

# univeCAST



Universal phosphate bonded casting investment material for model crown and bridgework as well as casting technique by quick or progressive heating procedure and for pressable ceramics

Characterictis:	Universal application, one investment for model castings, combination works,as well as crowns and bridges. Specially developed for casting non-precious dental alloys. Casting is simple even with ringless technique. For quick heating, place the cylinder into the furnace at the final burnout temperature and casting can commence within an hour; this allows considerable time savings.
Indications:	crowns and bridgeworks, Co-Cr model castings, high-quality combination works
Packing:	05904 Univecast powder - 6 kg (40 x 150 g) 05825 Polisol liquid - II bottle



## ADVANTAGES:

- Universal application, one investment for model castings, combination works as well as crowns and bridges
- Specially developed for casting non-precious dental alloys
- Casting is simple even with ringless technique
- Optimal fluidity and adequately long processing time allows filling of the most demanding parts of the model and bigger objects
- Duplicated models are extremely smooth, hard and additional hardening is not needed
- For quick heating, cylinder can be placed into the furnace at the final burnout temperature and casting can commence within an hour; this allows considerable time savings
- Cooled investment material is brittle after the casting
- The fine granulation of powder results in smooth surfaces of castings and excellent reproduction of details

## Physical data:

Mixing ratio (powder/ liquid).....	100 g/ 22 ml
Fluidity.....	130 ± 5 mm
Processing time (22-24°C).....	4,5 - 5,5 min
Initial setting time (22-24°C).....	7 - 8 min
Thermal expansion.....	1,0 ± 0,1%
Compressive strength.....	10 MPa

# poliPRESS



A phosphate bonded casting investment material for pressable ceramics

Characterictis:	Perfect fit. High degree of precision. Quick heating. High compression strength.
Indications:	full ceramics, press-over-zircon ceramics, press-over-metal ceramics
Packing:	05934 Poli Press powder - 6 kg (60 x 100 g) 05832 Poli Press liquid - II bottle



## ADVANTAGES:

- Suitable for fabrication of inlays, onlays, crowns, veneers, 3-unit bridges and pressings on metal and zirconia frameworks
- The total expansion can be exactly adapted to different pressceramic types by diluting the expansion liquid with distilled water
- Its optimal fluid consistency pours easily when investing and produces smooth pressings
- Easy divesting of the ceramic objects can be done at a very low sandblast pressure; this treats the surface with care and ensures, therefore, a high accuracy of fit
- An outstanding property is reduced investment interaction layer on the surface of the ceramic objects

## Physical data:

Mixing ratio (powder/ liquid).....	100 g/ 22 ml
Fluidity.....	130 ± 5 mm
Processing time (22-24°C).....	4,5 - 5,5 min
Initial setting time (22-24°C).....	7 - 8 min
Thermal expansion.....	1,0 ± 0,1%
Compressive strength.....	10 MPa