

CATALOGUE



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WHO ARE WE?

CLEMDE is a 100% Mexican company. We manufacture and distribute materials and devices for the prosthetic dental industry. Additionally, we provide our clients with training courses in the practical, and responsible use of all our products, and processes. CLEMDE counts on nearly 23 years of operating experience in the international dental market.

HISTORY

CLEMDE is a leader in supplying the international dental market. Founded in 1999, in Mexico City, CLEMDE always looking for both quality and continuous improvement. We have international certificates and scientific studies which validate the reliability and safety of our products and manufacturing processes. We are a multi-brand company, with a catalogue featuring over 200 products.









MISSION

To make available to our customers the best possible products with the best possible quality. To carry out constant self-improvement and research in order to contribute to the technological development of the dental industry.

VISION

To continue evolving dentistry, so that through our materials and innovative technology, we can provide the client with processes that are simple, guaranteed, and trustworthy.



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Partial Flex®



Partial Flex®
Flexibilidad en buenas manos

Partial Flex®

Certificado de garantía - Mecánica Dental
Certificado de garantía - Químico Dental

Flexibilidad en buenas manos - Mecánica Dental
Flexibilidad en buenas manos - Químico Dental

Partial Flex®
Black Furnace Pro

By Clemde



Digital Partial Flex® Furnace

The Digital Partial Flex® Furnace is an electrical device, operated via digitalized controls. Offered the best and latest technology in the thermo processing of molding resin, users can optimize energy levels while controlling temperatures and times.



TECHNICAL SPECIFICATIONS

- Temperature range: 0° C - 400° C (32° F - 575° F)
- Electrical specifications: 110 V I 400 W / 5 A and 220 V I 400 W / 5 A
- Exterior dimensions: 14.4 cm width x 11 cm length x 27 cm height (4.3 " width x 5.9 " length x 8.5 " height)
- Display screen for temperature programming
- Display screen for time programming
- Timer alarm
- Temperature alarm
- 2.3 kg weight (5 lbs)



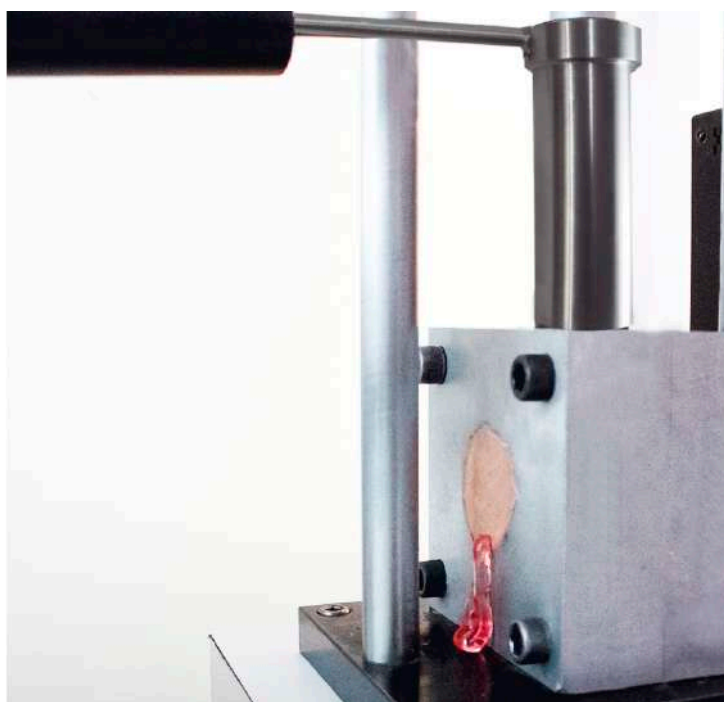


Partial Flex® Manual System

Manual molding injection machine, made with aluminum and stainless steel.

FEATURES

- Approximate weight: 10 kg (22 lbs)
- Exterior dimensions: 18 cm width x 18 cm length x 52.5 cm height (7.1 " width x 7.1 " length x 20.6 " height)
- Torque capacity: 1,800 kg (3968 lbs)
- Non Corrosive
- Slip-resistant handwheels





Partial Flex® Cartridges

It's a random copolymer, specially formulated for the injection molding of Partial Flex® partial prostheses. Derived from a chemical group known as olefins, it results in a composite of great thermoplastic molding capacity. Its end products are flexible, ultraresistant against impact, highly translucent, biocompatible, hypoallergenic, and 100% nontoxic for use in human therapy. Each Tube contains 27 g (0.95 oz) of Partial Flex® molding resin.

The advantages and safety of Partial Flex® molding resin are backed up by numerous studies, including those conducted by:

- Toxikon Safety Europe N.V. (Belgium), for biocompatibility
- Laboratories of Immunological Specialties (LEI, Mexico City), for biocompatibility
- ISO 13485:2016, for quality in manufacturing
- The International University of Catalonia (UIC, Barcelona), for clinical performance
- Nordic Institute of Dental Materials (NIOM, Oslo), for flexural functionality









Partial Flex® Cartridges

Besides providing a certificate of authenticity for each Partial Flex® Cartridge, we also ship it enclosed in a sealed hygienic bag, ensuring a satisfactory delivery – the first step towards creating a Partial Flex® structure.



Six Distinctive Tones

Label	Tone	Recommended Thermoplastification Run-time
	Light	13 min.
	Standard	13 min.
	Mix	13 min.
	Dark	13 min.
	Natural	60 min.
	Chromatic	20 min.



What are the benefits of a Partial Flex® prosthesis?

- They are nylon-free
- They do not contain Bisphenol A
- Their colors never fade
- They do not absorb or trap humidity
- They represent a safe alternative for patients allergic to acrylic
- They are highly translucent
- They are ultralight

Physical Properties

- Aqueous absorption: 1.2 µg/mm³
- Solubility: 0.04 µg/mm³
- Maximum stress intensity factor: 2.4 MPa/m²
- Total fracture work: 16,209 J/m²
- Ultimate flexural strength: 28 σ MPa
- Flexural modulus : 776 MPa
- Color stability: Stable



Seal flex

A sealing polymer presented in gel form, designed to prevent flexible resin from sticking to plaster.

Suggested use:

apply only to a plaster surface, brushing on 2 or 3 layers. It is essential to let Seal Flex dry completely before applying a fresh layer, to prevent staining or residue buildups.



Characteristics:

- Contents: 130 g (4.6 oz)
- A transparent gel
- Drying time: 10 minutes

Molding flex

Partial Flex® Mold Release agent is a silicone (polysiloxane) spray that is applied to the Cartridge Holder cylinder, the injection plug, and Partial Flex® Cartridge, before introducing into oven.

Characteristics:

- Contents: 200 g (7.0 oz)
- Gaseous state
- Use at temperatures no higher than 400° C (752° F)
- Flammable





FLASK BLACK (large-sized)

- Recommended for large or multiple injection cases.
- Made of anodized aluminum
- Exterior dimensions: 118 mm width x 107.7 mm length x 68.58 mm height (4.65 " width x 4.24 " length x 2.70 " height)
- Internal capacity: accommodates up to 500 g (17.6 oz) of plaster



FLASK BLACK (standard-sized)

- Recommended for regular-sized cases or multiple-injection of medium or small-sized cases.
- Made of anodized aluminum
- Exterior dimensions: 105 mm width x 105 mm length x 72.39 mm height (4.13 " width x 4.13 " length x 2.85 " height)
- Internal capacity: accommodates up to 430 g (15.2 oz) of plaster

EMPTY TUBES

The empty tubes are made of aluminum, to meet the demand of the flexible's market, the tubes have a standard size that is compatible with our cylinder carrying white handle cartridges and with other brands of existing ovens.

The tube comes in two presentations according to its content of 22 and 25 grams respectively, both presentations include a lid made of aluminum with the measure ideal to be able to adjust to the tube.

The caps can be used for the division of Partial Flex® tubes, in order to make better use of the material in the injections and not waste the rest.



POLISHING KIT

Partial Flex® offers the only injection molding system in the restorative dental market whose end products do not require any special polishing pastes or liquids. You need follow only five steps to create a bright, lifelike prosthesis. However, this optimal finish is not guaranteed without the use of the following aids:

1. Partial Flex® Felt disc



A rotary disc made of synthetic fiber, used in the first step in smoothing the surface of the prosthesis under development.

2. B20 Brush



A rotary disc made of black synthetic bristles, used in the second step in the working of a Partial Flex® prosthesis. It is mainly for hard-to-reach areas.

3. Polishing Buffer



A four-inch rotary disc made of multiple cotton layers, used in the third step in polishing a Partial Flex® prosthesis. The use of crystalline silica grit (60-100 micron) is recommended.

4. White Brush



A rotary disc made of natural bristles, used in the fourth step in finishing a Partial Flex® prosthesis: initial buffing.

5. Shine Buffer



A rotary disc made of multiple muslin layers, used in the fifth and final step in polishing a Partial Flex® prosthesis: fine buffing.



Air Flow Flex® blow-torch burner

Portable combustion tool used for doing fine repairs on flexible prostheses, a feature of the Partial Flex® technique.

ADVANTAGES

- Does not produce a flame
- Does not burn flexible material
- Activates exclusively with butane gas



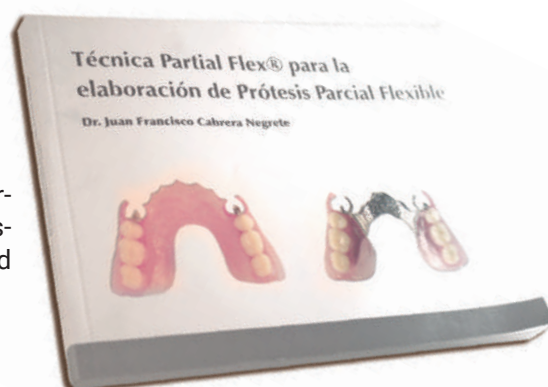
Plaster IV

Partial Flex Plaster® (Type IV) is dental gypsum suitable for fabricating every kind of model that requires an exact replica, including those for select models, models for removable prostheses and implants, and master impressions for crowns and bridges, etc. It provides excellent, long-term dimensional stability, low setting expansion, consistent stone, and extremely smooth surfaces.



Partial Flex® Book

A comprehensive manual which describes step-by-step the Partial Flex® method to creating removable, flexible partial prostheses. Includes designs for both traditional metal and hybrid models. Contains 200 pages, most with illustrations in color.





Black handled Cartridge Holder Cylinder

An accessory made of steel, the Holder is used to insert a single cartridge into the Partial Flex® Black Digital Furnace. It is resistant to high temperatures, and is never deforming, so as to allow for a hassle-free thermoplastification of the resin. It work with an injection stopper. This Cartridge Holder is specially designed to work with Partial Flex® Cartridges, as its internal diameter allows for a perfect coupling.



White handled Cartridge Holder

An accessory likewise made of steel, this Holder also inserts a single Cartridge into the Partial Flex® Black Digital Furnace. Resistant to high temperatures, it also never deforms, and permits for a perfect thermoplastification. This model has an injection stopper as well. The difference is that this Cartridge Holder has an adjuster, designed to couple with cartridges of varying internal diameters.



Cartridge Ejector

This aluminum accessory functions as a support column for the placing of the Cartridge Holder, and facilitates the easy removal of a spent Cartridge.



Injection stopper

An aid to pushing the Cartridge during its injection. It is made of a special bronze alloy, comes in two different presentations, with a diameter of 25.08 mm ideal for our black handled cartridge holder cylinder and with a diameter of 25.78 mm for the white handled cartridge holder cylinder.



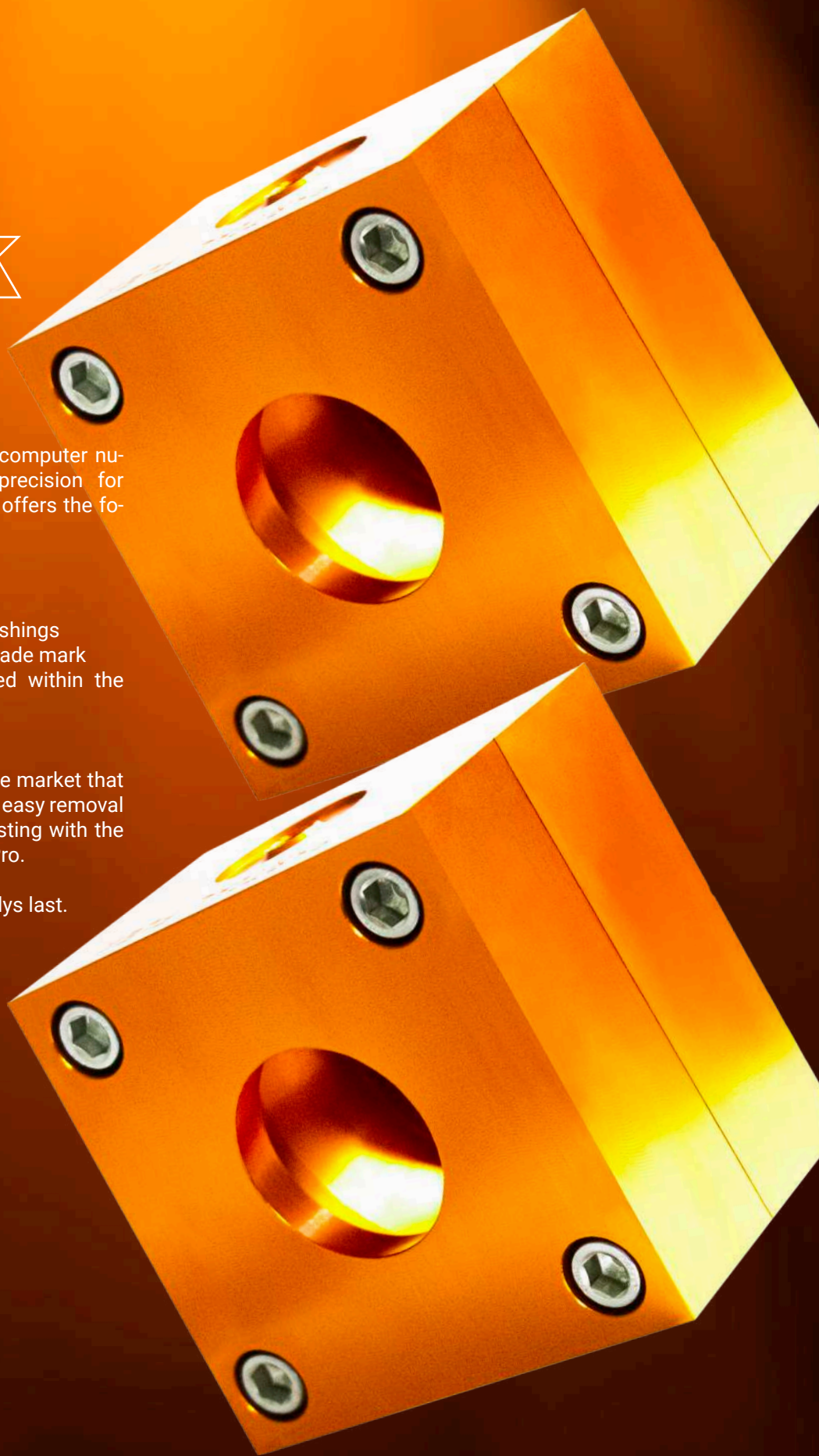
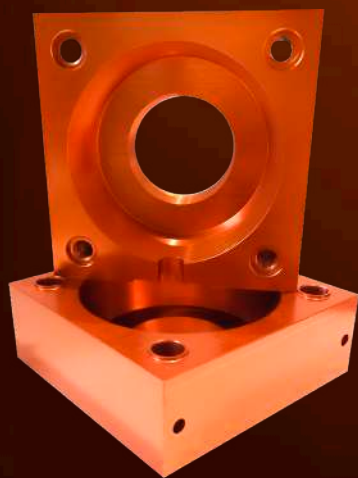
New Flask

Designed under the CNC System (computer numerical control) unprecedented precision for the final outcome is guaranteed. It offers the following characteristics:

- 100% aluminum
- Anodized
- High-precision interconnecting bushings
- Identifiable by the Partial Flex® trade mark
- Stainless steel screws concealed within the flask
- Perfect fittings

This is the only flask available in the market that provides interior angles to facilitate easy removal and pins oriented for a perfect casting with the manually-operated Black Furnace Pro.

Special edition, available until supplies last.



EZPRESS



The EZ Press® with integrated curing oven is designed for easy injections, with just the push of a button. It counts on two injection controls, for times and temperatures, both of which are programmable using the display screen. This also has a manometer for monitoring pressure, and indicators which show the current operating time and temperature.



TECHNICAL SPECIFICATIONS

Electrical specifications: 110 V | 400 W / 60 Hz and 220V | 330 W | 1.5 A

Exterior dimensions: 24 cm width x 19 cm length x 77 cm height

(9.45 " width x 7.48 " length x 30.31 " height)

Number of programs: 2 (manual and automatic)

Maximum pressure: 7 bar

Temperature range: 0° C - 400 °C (32 °F - 752 °F)





EZPRESS

EZ PRESS Touch & Press

The new EZ PRESS Touch & Press machine is designed with high technology, ideal for greater accuracy in reading time and temperature, the new touch screen allows you to have exact control of injection parameters such as time, temperature and pressure.

This version of the EZ PRESS® machine allows you to inject different types of materials such as Partial Flex® or AcriPress acrylic, in the same way, it isn't necessary to have a sealed tube to be able to install any of these materials.

TECHNICAL SPECIFICATIONS

- Electrical specifications: 110 V | 400 W / 60 Hz and 220V | 330 W | 1.5 A
- Exterior dimensions: 26 cm width x 18.9 cm length x 75 cm height (10.26 in width x 7.42 in length x 29.52 in height)
- Number of programs: 1 (manual)
- Maximum pressure: 7 bar
- Temperature range: 0° C - 400 °C (32 °F - 752 °F)

3D PRINTING **PARTIAL FLEX®** FILAMENT

The 3D filament is a presentation of the original copolymer of Partial Flex®, it is a thermo-plastic resin dental filament designed to meet the needs of the market for all laboratories that have a 3D printer, retaining the main properties of Partial Flex®.

Forget about plaster. Model and design your prosthesis from a computer, print and achieve the perfect shine with the steps you already know.

The 3D filament is available in a spool presentation of 250 grams with a diameter of 1.75 or 2.85 mm according to the requirements of the 3D printer, temperature can be changed during its driving time from 235° to 260° C (455° to 500° F).

Available in 6 shades:

- (L) Light
- (S) Standard
- (D) Dark
- (N) Natural
- (M) Mix
- (C) Chromatic



ACRIPRESS

AcriPress® is a polymer based on polymethylmethacrylate, better known as PMMA. By classification according to 93/42/CEE and MDR (EU) 2017/745, it is "class II a" medical device for long-term contact with mucous membranes. It consists of a cross-polymerization acrylic that is cured by heat.

COMPOSITION

AcriPress® Enduring Quality powder content

- PMMA copolymer (Polymethylmethacrylate)
- Dibenzoyl peroxide
- Organic colorants
- Inorganic pigments

AcriPress® Enduring Quality liquid content

- MMA (methylmethacrylate)
- Dimethacrylate

It has an attractive texture to the eye, it is an extra fine powder and already polymerized, it has an ideal translucency, available in tone, achieving a tone Mimetic Pink Veined (MPV), achieving a natural tone and with a perfect vein. The compound includes Hydroxyapatite ($\text{Ca}_5(\text{PO}_4)_3(\text{OH})$) that gives it properties that considerably improve its performance against mechanical stress that ensures the obtaining of parts with a premium quality.

AcriPress® enjoys great versatility when it comes to preparation, since its elegant design facilitates the user's easy preparation.

Mixing Kit

- 20 Sachets of 10 grams of acrylic powder
- 1 Amber bottle of 120 mL of monomer
- 10 Empty tubes Partial Flex®
- 1 Graduated cylinder of 25 mL
- 1 Mixing key



Minutes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Mixing time	1 min																	
Waiting time	18 minutes																	
Pressing time duration	5 minutes																	

The AcriPress® Mixing Kit is designed to be compatible with our injection systems EZ PRESS®, EZ PRESS® Touch and Press and the traditional method in the dental industry.

Lithium ®



Lithium YZR® SYSTEM

The Lithium YZR® System is both dynamic and accessible, designed for creating dental restorations based on lithium disilicate glass-ceramic. This work is done in combination with the pneumatic PF KEEP® Press and Lithium YZR® dewaxing furnace, D Waxing PRO 2.0. An injection free of any fractured outcomes is guaranteed.



D-Waxing Pro Touch Screen Furnace

The innovative design of the D Waxing Pro Touch Screen Furnace allows greater pressure in the rise of time and temperature, in addition to the control of alarms.

It maintains the power button for convenience and control of the furnace, plus the new size allows a better heat insulation within the internal chamber.



TECHNICAL SPECIFICATIONS

- Electrical specifications: 110 V | 1200 W | 15 A and 220 V | 1782 W | 8.1 A
- Exterior dimensions: 29.2 cm width x 30.92 cm length x 38.2 cm height (11.5 " width x 12.19" length x 15" height)
- Maximum temperature: 999 °C (1830 °F)
- Capacity: 8 ladles of 1 ¾ inches or 2 ladles of 3 inches
- Temperature increase: 14 °C - 17 °C/minute (57.2 °F - 62.6 °F/minute)

Lithium YZR® Dewaxing Furnace: the D Waxing PRO 2.0

This dewaxing furnace is designed with total optimization in mind, from energy consumption to heating times.

FEATURES

- Electrical specifications: 110 V | 1200 W | 15 A and 220 V | 1782 W | 8.1 A
- Exterior dimensions: 27 cm width x 27 cm length x 37.6 cm height (8.5 " width x 8.5 " length x 14.8 " height)
- Maximum temperature: 999 °C (1830 °F)
- Capacity: 8 ladles of 1 ¾ inches or 2 ladles of 3 inches
- Temperature increase: 14 °C - 17 °C/minute (57.2 °F - 62.6 °F/minute)



TECHNICAL SPECIFICATIONS

- Electrical specifications: 110 V | 1200 W / 15 A
- Exterior dimensions: 27 cm width x 27 cm length x 37.6 cm height (8.5 " width x 8.5 " length x 14.8 " height)
- Maximum temperature: 999 °C (1830 °F)
- Capacity: 8 ladles of 1 ¾ inches or 2 ladles of 3 inches
- Temperature increase: 14 °C - 17 °C/minute (57.2 °F - 62.6 °F/minute)



Lithium YZR® Ingots



Lithium YZR® ingots represent an innovative concept, as they are constituted of a chemical mixture of diverse mineral compounds. Silica oxide is the main ingredient (70%). The rest is composed of lithium dioxide, potassium oxide, zirconium oxide, zinc oxide, aluminum oxide, magnesium oxide, and other microfillers. Its safety has been backed up by biocompatibility studies conducted by Suzhou University (Taipei), while the Nordic Institute of Dental Materials (Oslo) has verified its flexural functionality.

- Ingots density: 2.4-2.6 g/cm³
- CTE - coefficient of thermal expansion: (25° C - 500 °C) 8.5 – 11.0 x 10⁻⁶ K⁻¹
- Posterior biaxial resistance while sintered: 400 ± 60 MPa
- Vickers hardness test: 5800 ± 400 Mpa
- Chemical solubility while sintered: < 100 µg/mm³
- Press temperature: 915 °C - 935 °C (1679 °F - 1715 °F)
- Ingots diameter: 13 mm
- Ingots height: 10 mm

TRANSLUCENCE	APPLICATIONS	COLORS
HT (high translucence)	Recommended for inlays and veneers	A1, A2, A3 and B1, B4
LT (low translucence)	Used for copings and full crowns	A1, A2, A3 and B1, C1, C2
MO (medium or average opaqueness)	Used for anterior copings and bridges (3-unit maximum) when indicating ceramic stratification upon these structures	MO1
BL (whitening)	Useful for obtaining high-chromatic colors, like bleached teeth	BL1, BL2

**400 MPA OF
COMPRESSION
STRENGTH!**

Temperature Table

Initial temperature	800 °C (1472 °F)
Temperature increase	60 °C/minute (140 °F/minute)
Final temperature	935 °C (1715 °F)
Holding time	15 minutes
Pressing time	1 minute



Lithium YZR® Blocks

Lithium YZR® lithium disilicate blocks are ideal for the making of dental restorations and compatible with every CAD/CAM system in the market.



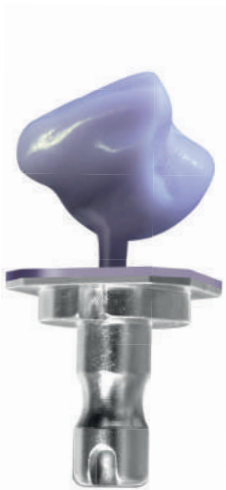
Block B40

- Large-sized: 15 mm width x 17 mm length x 38 mm height (0.59 " width x 0.67 " length x 1.5 " height)
- Available tones: HT – A1, A2, A3; LT - A1, A2, A3, B1, B2; BL1, BL2



Block B18

- Medium-sized: 15 mm width x 17 mm length x 40 mm height (0.59 " width x 0.67 " length x 1.57 " height)
- Available tones: HT – A1, A2, A3; LT - A1, A2, A3, B1



PHYSICAL AND FLEXURAL PROPERTIES

- Flexural resistance: 400 Mpa
- Chemical solubility: < 100 µg/ mm³
- Coefficient of thermal expansion: 8.5 – 11.0 x 10⁻⁶ K⁻¹



RECOMMENDED PARAMETERS FOR CRYSTALLIZATION

Drying time	6 minutes
Inlet temperature	400 °C (752 °F)
Temperature increase	50 °C / minute (122 °F/minute)
Final temperature	850 °C (1562 °F)
Dwelling time	10 minutes
Chart below	700 °C (1292 °F)
Vacuum inlet	550 °C (1022 °F)
Vacuum outlet	840 °C (1544 °F)



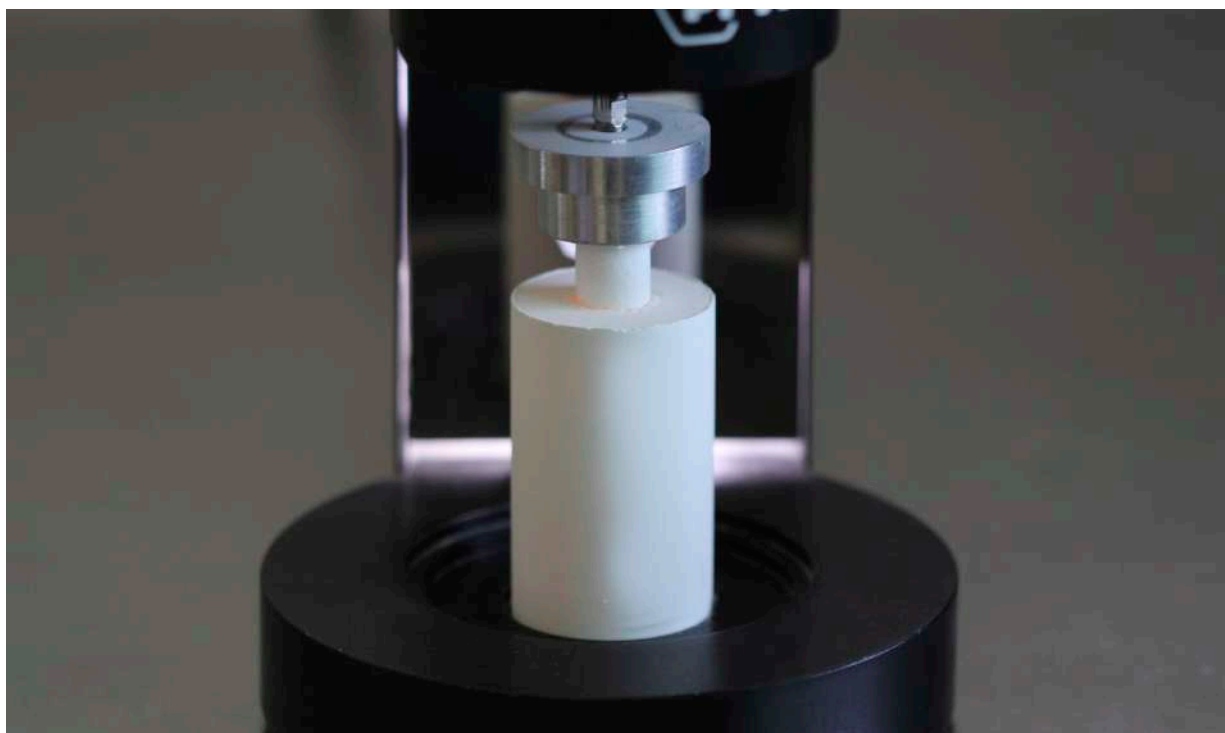


Investment Casting Powder

It's used for creating dental restorations based on lithium disilicate glass-ceramic. Composed of powder and liquid, it is mixed in an electric vacuum spatulator for 1 and a half minutes, from 350 to 600 rpm, to obtain the correct consistency. Setting time is 30 minutes. Lithium YZR® cast package contains one pack of powder (100 g) and two packs of liquid (9 ml and 17 ml).

TEMPERATURE CHART

Initial temperature _____ 800 °C (1472 °F)
 Rate of increase _____ 60 °C/minute (140 °F/minute)
 Final temperature _____ 935 °C (1715 °F)
 Dwelling time _____ 15 minutes
 Pressing time _____ 1 minute



To successfully do an injection of lithium disilicate glass-ceramic, the cast must be placed into a PF KEEP® press, or a press furnace.





**Silicon cylinder
(100 g, 3.5 oz)**

Ideal for small cases, it has a capacity for up to four units and 100 g of investment cast.



**Silicon cylinder
(200 g, 7 oz)**

It offers a maximum capacity for six units or two bridges for 3-units.



Plungers

Disposable injection casts with a 13.2 mm diameter, they can be used for 100 g and 200 g cases.



Base(100 g, 3.5 oz)

This aluminum column support has a diameter of 43.1 mm (1.7"), a useful aid in preventing spillages of the investment casting mix.



Base (200 g, 7 oz)

This aluminum column support has a diameter of 63.5 mm (2.5").



Ceramic fiber

A fibrous pad useful for handling dental restorations of lithium disilicate glass-ceramic, zirconia, or metal-ceramics. It substitutes the use of pine-tar holders or other costly alternatives.





Lithium YZR® Key

The Lithium YZR® Key is a useful aid in properly adding in sprues, which must be placed in at a 45° angle. There are two Key sizes, for 100 g and 200 g injection cases.



Yellow Lithium YZR® Diamond Paste

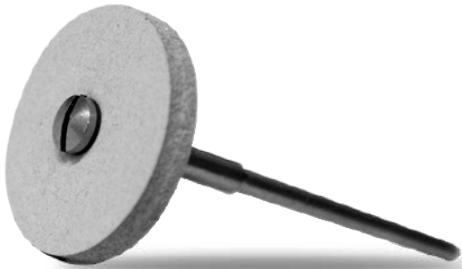
The abrasive polishing past extra-fine grit (3 micron), contained in a 5 g syringe.



Polishing Kit

White Silicone Rotary Disc

Milling tool whose function is to grind and smooth out the restoration leaving behind an even, and seamless surface, free of any roughness or irregularity.



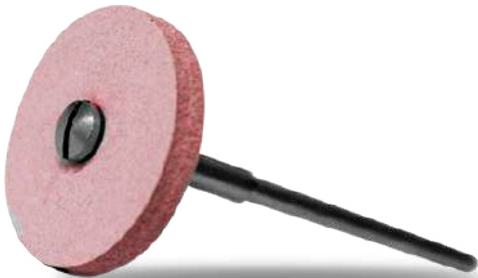
Diamond-tipped Rotary Drill

Fine milling tool to continue working and smoothing out the restoration in hard-to-reach areas which the White Silicone disc cannot reach.



Pink Rotary Disc

To follow up on the previous polishing steps with initial buffing work.



Pink Rotary Drill

It's the fourth step to polish and glossy.



Robinson-Type Brush Rotary Disc

For final buffing. It penetrates and finely permeates the Lithium YZR® Diamond Paste, achieving a lifelike and glossy finish.



POLISHING FINISHED-





LUSTRE COLOR KIT
Lithium YZR®



Lustre Color Kit®

Lithium YZR®

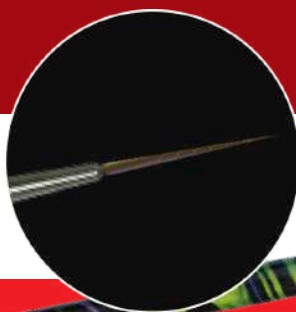
This universal make-up kit counts on a system of ceramic bases with low fusion (750 °C, 1382 °F) for making-up, staining and glazing restorations in lithium disilicate glass-ceramic, zirconia, and metal-ceramics, any with a coefficient of thermal expansion (CTE) of $6.9 - 13.3 \times 10^{-6} \text{ K}^{-1}$. It provides a great 3D technique, achieving the aesthetic triad: Chrome, Hue, and Value.

Lustre Color Kit® Lithium YZR® contains 12 individual ceramic masses: 1 neutral glaze, 4 bodies for A, B, C, and D Groups, 6 color masses (white, yellow, blue, gray, brown, black), and one pink mass for gums, each contains 3 g and 10 mL of liquid glaze, ready to use to its excellent consistency, they can be diluted using Liquid Color or their intensity lessened using Neutral Glaze Paste.



Liquid Color

This liquid is specially formulated to work with the Lustre Color Kit® Lithium YZR®, to dilute color masses, and attain the desired consistency.



No. 20 Brush

The no. 20 Brush is specific for achieving makeup techniques. Due to its ultrafine tip, the technician can apply any desired color glaze with precision. Counting on an innovative design, the Brush is made of natural Kolinsky sable hairs.





Yellow

Yellow is concentrated to obtain B colors, and intensify details in A2 and B2 colors.



Blue

Blue provides opalescence, mainly for mesio and disto incisal angles, as well as for ridges.



Pink

Pink is for characterizing at the gingival level.



Grey

Grey is for diminishing value, and provides depth through shading.



Black

Black helps capture cavity and fracturing effects.



White

White is for incisal edges, the cuspids, and for heightening values throughout a restoration.



Glaze

A universal glaze, to obtain brightness in lithium disilicate glass-ceramic, zirconia, and porcelain.



Brown

Brown helps capture cavity and fracturing effects.



A Base

Color to attain A2, A3, A3.5, and A4 tones, according to the most used colorimeter in the market.



B Base

Color for attaining B2, B3, and B4 tones, according to the most used colorimeter in the market.



C Base

Color for attaining C2, C3, and C4 tones, according to the most used colorimeter in the market.

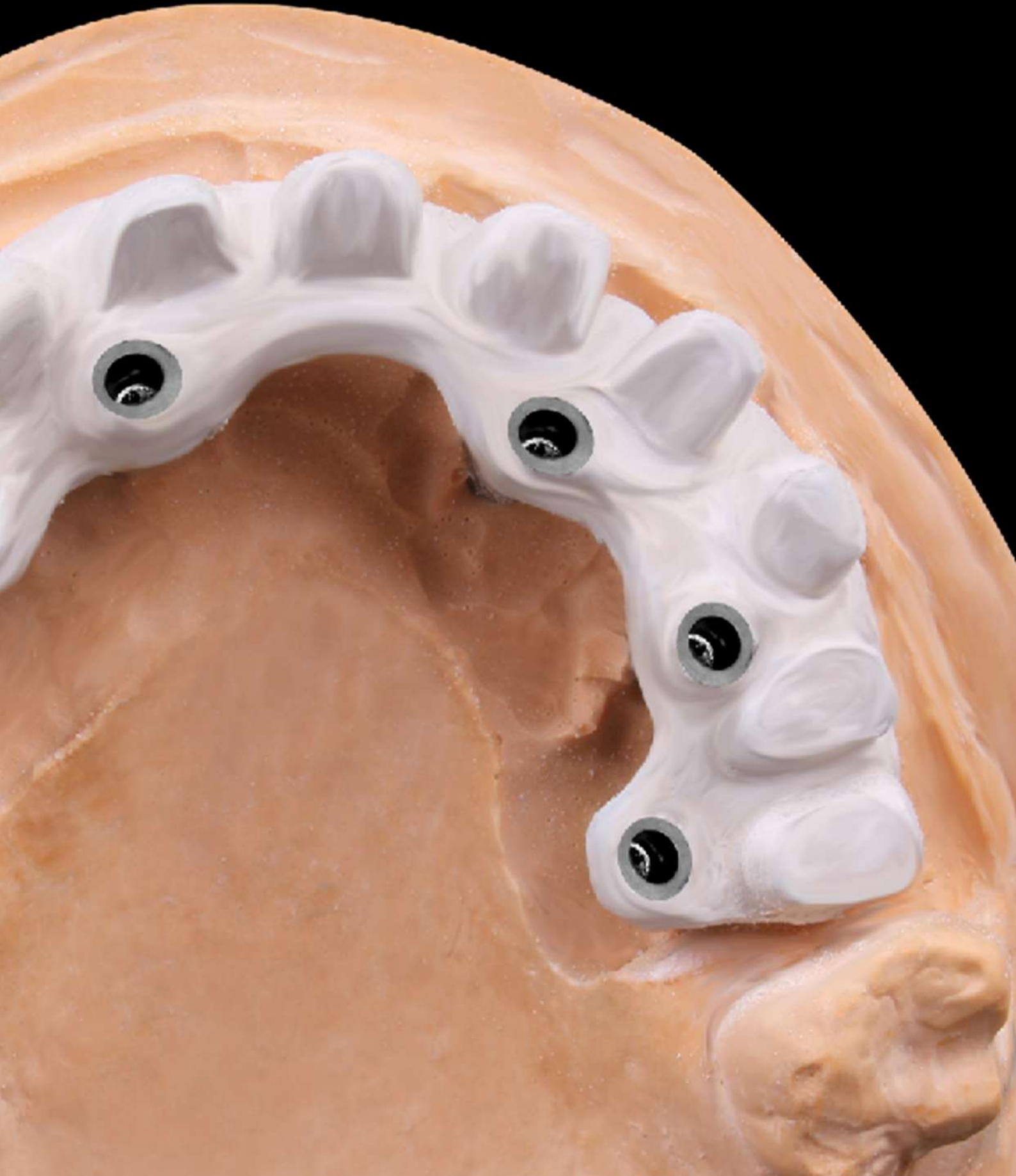


D Base

Color for attaining D2, D3, and D4 tones, according to the most used colorimeter in the market.



PF KEEP®



PF KEEP® System

The PF KEEP® System is designed for the injection of PF KEEP® resin, ideal for creating bars and implant attachments. Any restorative work done with the pneumatic Injection Press and Lithium YZR® dewaxing furnace, D Waxing PRO 2.0 is sure to result in perfect mold injections.



PF KEEP® Machine System

An automatic press for the precise injection molding of lithium disilicate glass-ceramic material. It features a manometer, and push-button control over the piston. Its Base is compatible with 100 g (3.5 oz), 200 g (7 oz), and 500 g (17.6) cases.



TECHNICAL SPECIFICATIONS

- Electrical specifications: 110 V | 1.5 W / 2.5 A and 220 V | 11 W | 0.5A
- Exterior dimensions: 12 cm width x 26 cm length x 35 cm height





PF KEEP®

PF KEEP® is a highly engineered polymer, based on polyetheretherketone (also known by its acronym, PEEK). It is a thermoplastic material approved for permanent use in human according to International Standards including ISO 13485: 2016 (quality in manufacturing), ISO 10993: 2021 (biocompatibility), ISO 20795-1:2013 (Dentistry-Base polymers - Part 1: Denture Base Polymers) and USP 88 Class VI (toxicity). Each presentation contains 45 g (1.6 oz) of pellets.

PHYSICAL PROPERTIES

Aqueous absorption _____ 5 $\mu\text{g}/\text{mm}^3$
 Density _____ 1.31 g per cm^3
 Porosity _____ NO

MECHANICAL PROPERTIES

Resistance to fracturing _____ 10846 J/ m^2
 Flexural modulus _____ 3530 MPa
 Tensile strength _____ 162 MPa
 Coefficient of friction _____ 0.18
 Ultimate tensile strength _____ 7.0 MPa/ m^2

THERMAL PROPERTIES

Thermoplastification _____ 340 ° C (644 ° F)

CHEMICAL PROPERTIES

Solubility _____ 0.04 $\mu\text{g}/\text{mm}^3$



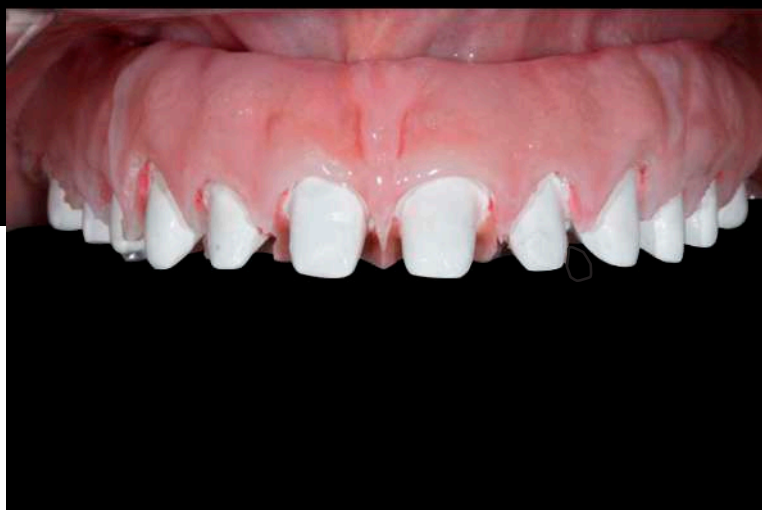
ADVANTAGES

- METAL- FREE
- BIOCOMPATIBLE
- ULTRALIGHT
- MINIMAL HEAT CONDUCTION
- 3530 MPA OF RESISTANCE TO FRACTURING





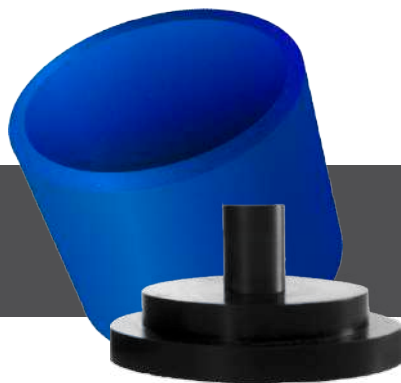
Bars for Implants



PF KEEP® resin is mainly used for the creation of implant bars. PF KEEP® provides a benign treatment of the surrounding soft tissues, as well as a high absorption of axial loads to the implants.

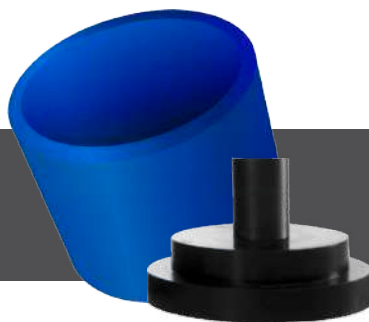
PF KEEP® provides a capacity for friendly coloring, characterizable using ceromers, others resins, acrylics, and lithium disilicate glass-ceramics. An unprecedented, high level of aesthetic value and functionality can be achieved for the patient.





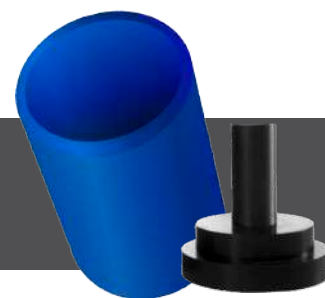
Silicon Base and Cylinder (500 g)

This Base is for creating bars and large structures.



Silicon Base and Cylinder (200 g)

This Base is for creating partial bars.



Silicon Base and Cylinder (100 g)

This Base is for customized attachments.



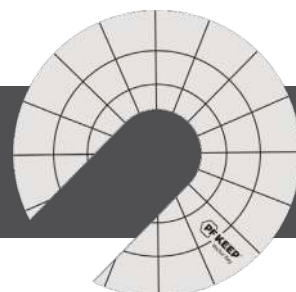
PF KEEP® Kit for Horizontal and Vertical Attachments

Semi-precise attachments in horizontal and vertical position. Contains 3 pairs.



PF KEEP® Kit for Spherical Attachments

Semi-precise spherical attachments. Contains 2 bars, with 4 entry points.



PF KEEP® Key

This vector Key is a useful aid in properly adding in sprues. They must be placed starting from the injection center, considering an uniform and symmetrical length.



Plungers

Disposable injection casts with a 26.5 mm diameter (1.04"), they can be used for 500 g cases.



PF KEEP® Investment Casting Powder

PF KEEP® cast is a specially formulated powder, used for creating dental restoration structures in PEEK. Composed of powder and liquid, the ingredients should be mixed together in an electric vacuum spatulator for 1.5 minutes, from 350 to 600 rpm, for the right consistency. Setting time is 30 minutes. One bag of PF KEEP® cast contains one pack of powder (100 g) and two packs of liquid (9ml and 17 ml).

Initial temperature _____ 15 °C - 20 °C (59 °F - 68 °F)
Rate of increase _____ 17 °C/minute (62.6 °F/minute)
Final temperature _____ 850 °C (1562 °F)



PF KEEP® Disk for the CAD/CAM System

PF KEEP® Disk for CAD/CAM odontal therapy is yet another PF KEEP® product. It is used in the fabrication of implants and metal-free removable prostheses. Its resemblance to bone, and elasticity have made it suitable for the milling of larger structures.

Disk come in 14 mm, 16 mm, 18 mm, 20 mm, and 22 mm in height (0.55", 0.63", 0.71", 0.79", and 0.87" respectively). Disk can also be made available in customized measurements. It is recommended to mill PF KEEP® Blocks at 650 rpm.

Disk diameter coincides with the standard milling tools in the market. All Disk sizes have a circumference of 98.5 mm, which helps avoid wastage of material.



FEATURES

- Metal-free
- Biocompatible
- Ultralight
- Minimal heat conduction
- 3530 MPa of Resistance to fracturing



CERAMI-K

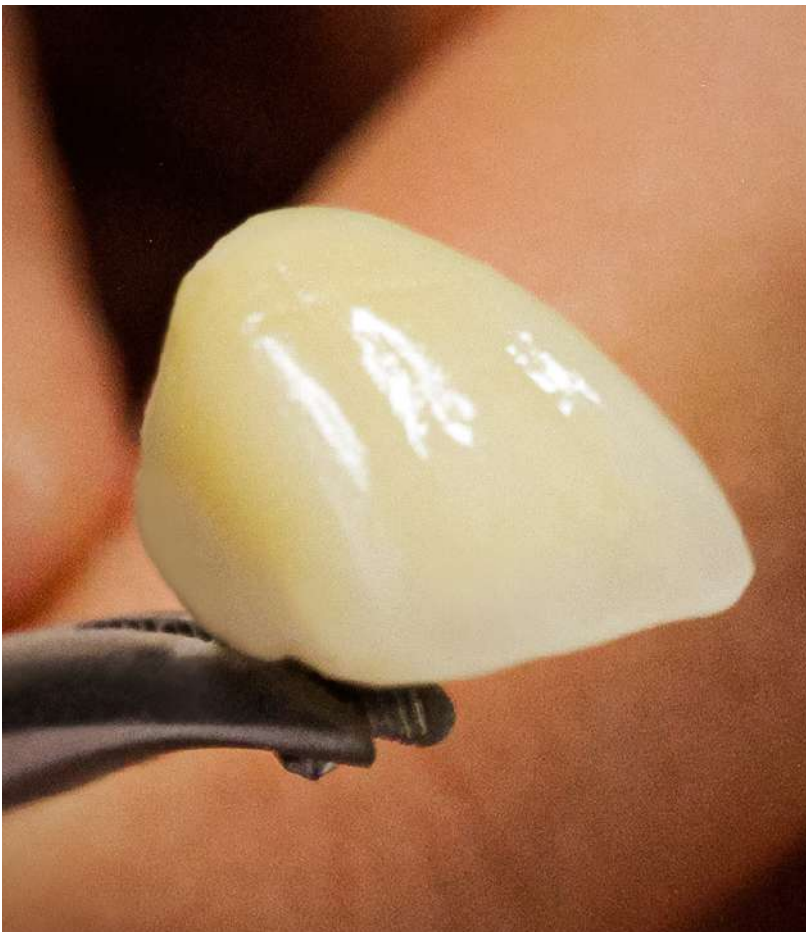


CERAMI-K®

Cerami-K® is a dental ceramic designed to be applied to structures based on chromium-nickle. Its glass-like properties help create an effect nearly identical to tooth enamel.

Cerami-K® Kit is put together with simplicity in mind, and includes: a ceramic adhesive, an opaquer, a dentin opaquer, a dentin, enamel mass, and other natural effect products, which results in a lifelike gloss for your end product. They can each be further enhanced through the use of liquid conditioners.

Cerami-K® offers a gamut of the 16 most usual colors found in dental ceramics.



Modeling Liquid

This liquid comes in a dropper bottle. It facilitates the modeling and plasticity of ceramic masses.



Opaker Liquid

This liquid is formulated to mix with all opaque masses, and helps avoid lumps.



Glazing Liquid

This liquid also comes in a dropper bottle. It is formulated to mix with glazing powders, and prevents run-offs and lumps.





Adhesive

Utilized to strengthen the bonding of metal to ceramic, and to keep Opaquer from coming off. 6 g jar, with universal tone.



Opaquer

Use Opaquer to keep metallic sheen from affecting your final optics. Tones include: OA1, OA2, OA3, OA3.5, OA4, OB1, OB2, OB3, OB4, OC1, OC2, OC3, OC4, OD2, OD3, OD4. 6 g jars.



Opaque Dentine

The first ceramic mass for building volume. Tones include: DOA1, DOA2, DOA3, DOA3.5, DOA4, DOB1, DOB2, DOB3, DOB4, DOC1, DOC2, DOC3, DOC4, DOD2, DOD3, DOD4. 10 g jars.



Occlusal Dentin

For adding deep luster to the cingulate posterior and anterior teeth. 6 g jar, with universal tone.



Dentine

Our second innovative volume builder. Tones include: DA1, DA2, DA3, DA3.5, DA4, DB1, DB2, DB3, DB4, DC1, DC2, DC3, DC4, DD2, DD3, DD4. 10 g jars.



Pink Dentin

A mass for creating lifelike gingival effects. Tones include: Light Pink Dentin (DRL), Medium Pink Dentin (DRM), and DarkPink Dentin (DRD). 10 g jar.



Transparency Effects

A mass for imparting translucency. Available in two tones: Medium Transparent (TM), and High Transparent (TH). TH toner heightens translucency, while TM lowers it. 6 g jars.



Opalescence Effects

A mass for creating bluish or grayish refracting effects. Available in two tones: Light Blue Opalescence (OLB), and Gray Opalescence (OLG). 6 g jars.



Enamel

Enamel mass represents the third overlay for imparting translucency to each color. Available in three tones: Light Enamel (EL), Medium Enamel (EM), and Dark Enamel (ED). 10 g jars.



Glazing Powder

A mass for adding brilliancy and building up texture. 6 g jar.



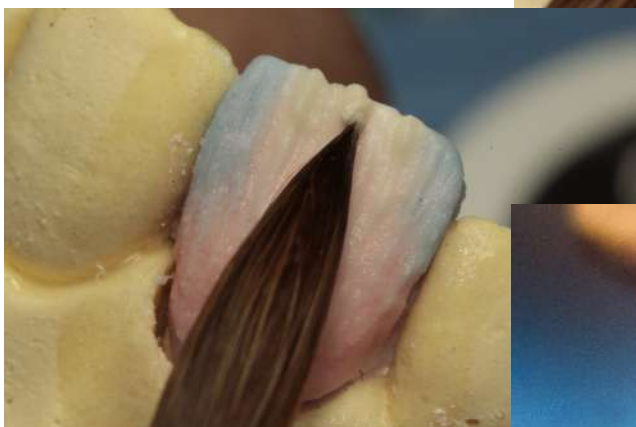
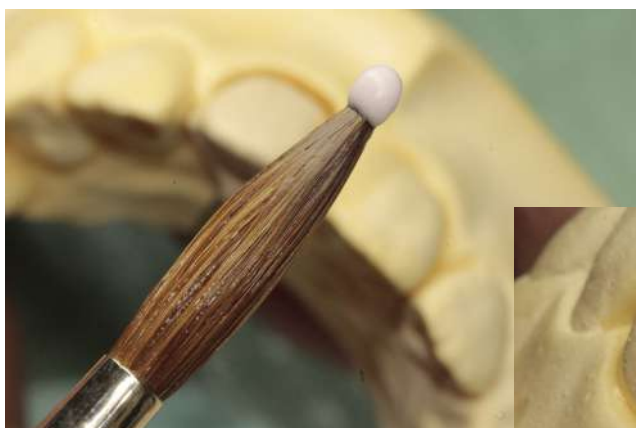
PALLET CERAMI-K®



Cerami-K® Brush



No. 5 porcelain brushes, with sophisticated printed style. Made with pine martha hairs, this fine detail brush optimizes the application of ceramic color masses, due to its capacity for staying moist.

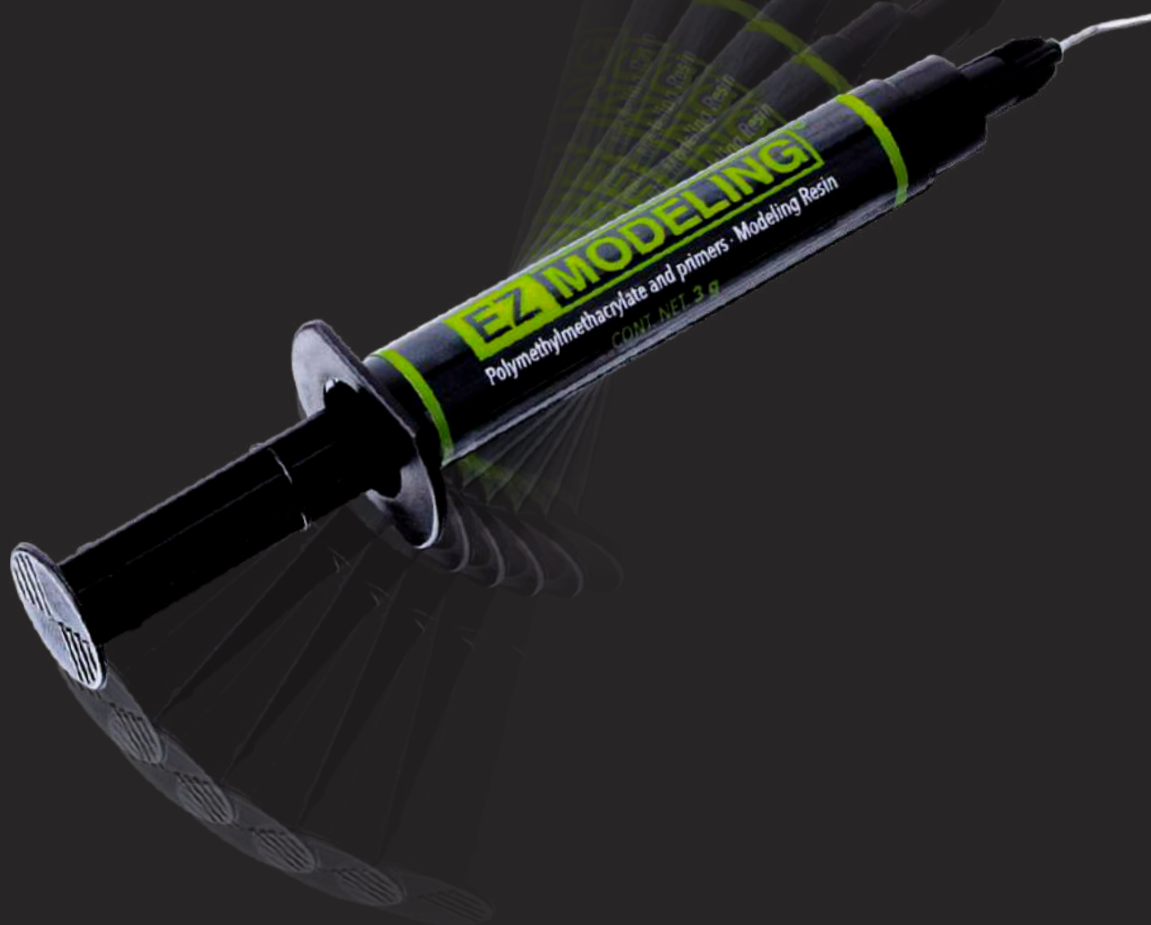


EZ MODELING[®]



EZ Modeling® Resin

A fluid, photopolymerizable resin composite ideal for working in acrylic glass (polymethacrylate). This is a castable, transparent thermoplastic perfect for the precision modelling of both fixed and removable prostheses. **EZ Modeling® is like having a 3D printer in your hands**





FEATURES

- Incomparable accuracy
- Does not drip, no residues
- Castable
- Easy to handle
- Photopolymerizable
- No contracting
- Each plunger syringe contains an infusion cannula, and 3 g of resin

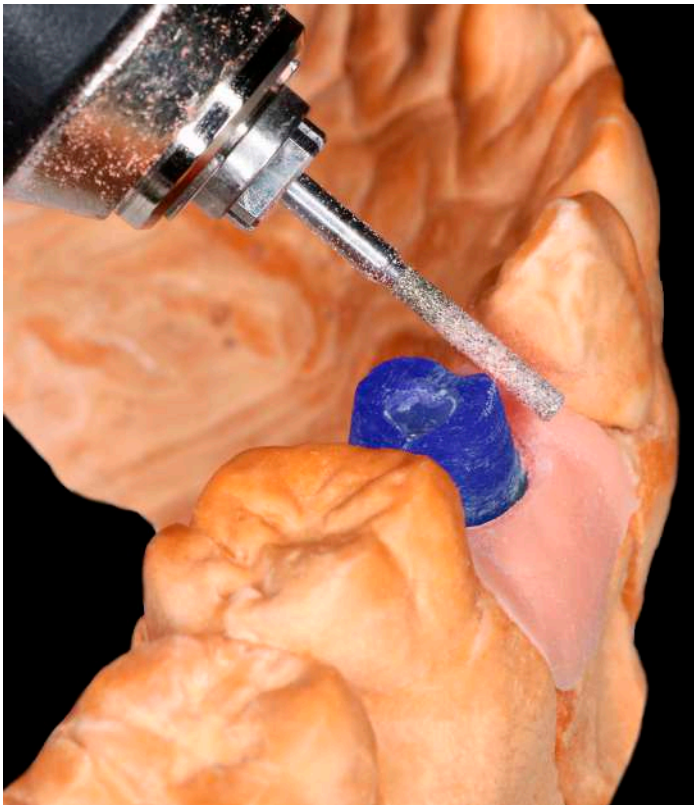
ADVANTAGES

- Avoid duplicating models
- Stability and precision in all your modeling
- Perfect castings, free of residues
- Direct application upon original models
- Impeccable exactitude



APPLICATIONS

- Modeling of copings
- Modeling of both fixed and removable bridges
- Modeling of precision attachments
- Modeling of crowns and bridges
- Creating metallic hard retainers and direct occlusal rests
- Soldering union of structures



STORAGE

- Store material from 4 °C to 254 °C
- Do not leave exposed to sunlight, or sources of heat
- Do not use after expiration date

DOUBLE

SILICON

CATALIZADOR



A silicone-based product of easy usage for making additions. It is formulated to duplicate models with undeviating precision, for both fixed and removable prostheses. Available as a base and catalyst, each pack contains 480 g (16.9 oz).

FEATURES

- Resistant to tearing
- Very low index to long-term contraction
- Resistant to heats of up to 232 °C (232 °F)
- High elasticity in mold recoveries
- Shore hardness: 30 A

Manual spatulating time _____ 1 minute
Work time _____ 5 minutes
Polymerization time _____ 30 minute

ADVANTAGES

- Bases duplicated in silicone can be emptied multiple times, thanks to their dimensional stability over the long-term, and elasticity in mold recoveries.
- Compatible with: plasters, polyurethane resins, acrylic resins, phosphatic and alcohol-based investment cast.
- Great fluidity, ready to pour, does not need any further mixing.
- Polymerizes quickly, to optimize worktimes.
- Faithful reproduction of every detail.

BASE



COME AND MEET US



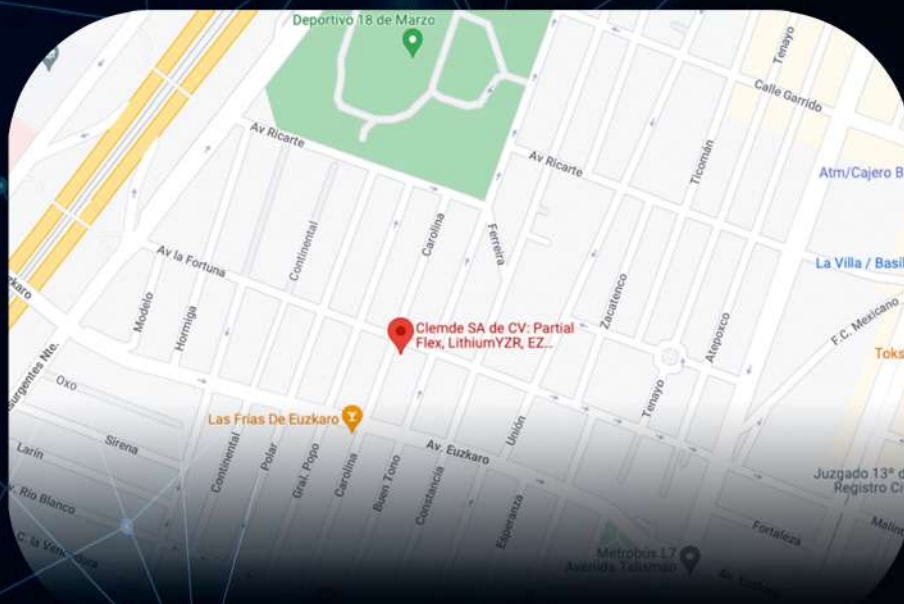
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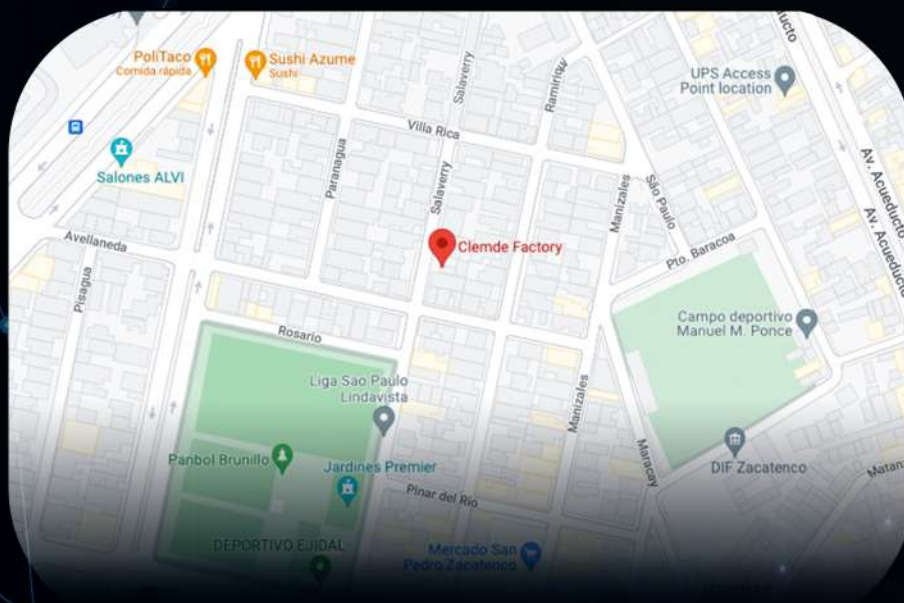
Clemde



@clemdedental



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