PALA®

Product Information

# Pala®

That's Prosthetics.
Denture Teeth and Acrylics for the Future.

Giving a hand to oral health.

KULZER
MITSUI CHEMICALS GROUP

# Kulzer –
# Working hand in hand towards innovative prosthetics.

As one of the world's leading dental companies, Kulzer stands for over 80 years of prosthetic excellence. Pala is the brand name of high quality denture teeth, acrylics, and first-class accessories. The development and production of perfectly matched products is based on many years of experience, modern technology and, not least, precision handcraft.

It is this handcraft which connects Kulzer as a reliable provider of leading products with you, the technician. After all, you use our products every day and know what is important. By placing high demands on the quality and user-friendliness of our products, you also incite us to advance innovation. Together, we work hand in hand for our common success: Highest quality and reliability on which both dentist and patient can rely on at all times. This is Prosthetics. This is Pala.

## History – The Pala Success Story.

For over 80 years Kulzer has been true to the company's philosophy: "Things which are for our customers will be successful". We invest specifically in research and development to meet your functional and aesthetic requirements. For the future we will continue our quest.

**1936**

**Paladon**
First heat-curing denture acrylic.

**1949**

**Paladur and Rapid-Paladon/Rapid-Palapont**
First cold-curing denture acrylic: Since 1957 with UV-stable catalyst system Paladur for denture repairs.

**1965**

**INCOMP procedure**
The world's most unique manufacturing method cuts out porosities and inclusions in the denture teeth.

**1968**

**Palapress**
Cold-curing acrylic for partial and full denture bases with the technical characteristics of a heat-curing acrylic and an amine-free accelerator for colour-stability.

**1974**

**Palamat**
Start of the Palamat series of polymerisation units introducing systematic workflow simplification.

**1977**

**Palajet/Intopress-System**
Denture fabrication with the Palajet precision injection process and the extremely colour-stable Intopress cold-curing acrylic.

**1999**

**CAD/CAM mould design**
Kulzer was the first company in the world to use CAD-CAM technology in denture teeth design.

# Pala

## Includes the entire range of products needed for fabricating acrylic dentures.

Pala. That's Prosthetics – from set up to the completed denture. The Pala processing chain includes all products from model analysis with the PalaMeter, through denture teeth selection with Pala Mix & Match, to transporting denture teeth in the PalaBox.

Find out more about our dental know-how and our Pala products and services at **kulzer.com**

Take a look at our Pala Videos:

**Start video**
**www.youtube.com/KulzerDental/playlists**

| Preparation | Tooth selection | Set-up | Acrylics | Finishing | Characterization | Transport |
|---|---|---|---|---|---|---|
| **PalaMeter**<br>**Palavit L**<br>**Palatray XL** | **Pala Idealis**<br>**Pala Premium**<br>**Pala Mondial**<br>**PalaVeneer**<br>**Pala Mix&Match DS** | **Contact A** | **PalaXpress ultra**<br>**PalaXpress**<br>**Palapress**<br>**Palapress vario**<br>**Paladon 65**<br>**Paladur**<br>**PalaVeneer Dentine** | **Palajet**<br>**Palamat elite**<br>**Aislar**<br>**Palabond**<br>**Palaferm** | **Pala cre-active**<br>**Palaseal** | **PalaBox** |
| Besides this practical instrument, proven materials for creating custom impression trays provide precision and fit. | Pala Mix & Match for maximum flexibility and reliable, easy-to-set-up prosthetics for all requirements and any situation. | Set-up instruments for precise positioning and detail accuracy. The result: Dentures with long-term stability in a shortened production time. | Our wide range of products for all indications are the result of more than 80 years of experience with innovative ideas. | Systematic processing of our products, reliability, high precision, and low residual monomer levels. | Light-curing materials for customising prosthetic restorations for immediately visible charcterisation. | For storage and for safe transport. |

**2000**

**2005**
**Pala Premium**
First multifunction denture tooth with unique aesthetics and function

**2008**
**Pala Mondial**
The only premium quality standard denture tooth assortment. Development of the new Nanopearls® highly abrasion resistant material.

**2011**
**PalaXpress ultra**
New cold-curing acrylic with higher fracture resistance than any cold-curing acrylic to date.

**2014**
**Pala Idealis**
First posterior denture tooth assortment with true to nature low cusp angle for all indications, especially implant-borne prosthetics, functional therapy and geriatric prosthetics.

**2015**
**PalaVeneer**
This unique veneering system based on Mix&Match shell teeth offers more room for aesthetics.

**Pala Mix&Match DS**
First artificial tooth line for CAD/CAM process.

# Pala Mix & Match

## The combination principle.
## The freedom to combine aesthetic and functionality at your will.

Our Pala Mix & Match principle allows you to unite our tooth lines Pala Idealis, Pala Premuim, Pala Mondial and PalaVeneer to get individual, professional results. You can cater for individual requirements with considerably more flexibility and even better provide patients with precision dentures.

Combining CAD/CAM technology and the INCOMP procedure maintains our exemplary colour, form and functional accuracy. You always receive reliable, dependable shade values for all Pala products and thus an even better adaptation to individual veneerings and any residual dentition.

You have all indications covered with Pala Mix & Match's perfectly harmonised denture teeth.

### Anterior Indications

| | very well appropreated → | | well appropreated |
|---|---|---|---|
| **PalaVeneer 6** | Implant-Borne Denture | Partial Denture | Cover dentures |
| **Mondial 6** | Full Denture | Implant-Borne Denture | Partial Denture |
| **Premium 6** | Implant-Borne Denture | Partial Denture | Full Denture |

### Posterior Indications

| | very well appropreated → | | well appropreated |
|---|---|---|---|
| **PalaVeneer 8** | Implant-Borne Denture | Partial Denture | Cover dentures |
| **Idealis 8** | Implant-Borne Denture | Full Denture | Partial Denture |
| **Mondial 8** | Full Denture | Implant-Borne Denture | Partial Denture |
| **Premium 8** | Partial Denture | Implant-Borne Denture | Full Denture |

## Pala Mix & Match

This is the perfectly harmonised denture tooth combination system around Pala Idealis, Pala Premium and Pala Mondial and PalaVeneer shell teeth.

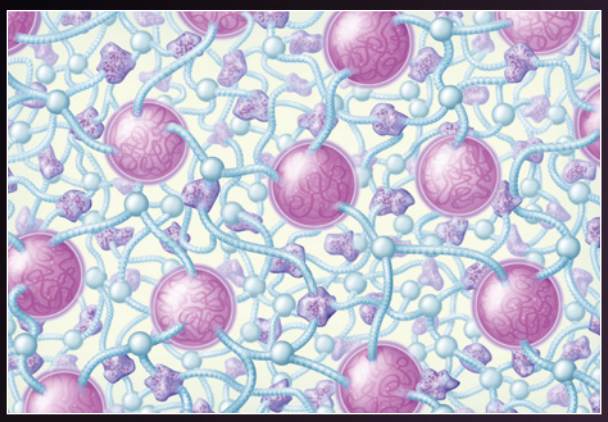
### Indication range

| Anteriors | | | | Posteriors | | | |
|---|---|---|---|---|---|---|---|
| aesthetics | adaptability | functionality | variety of shapes | Partial dentures | Fixed-removeable dentures | Full dentures | Geriatric prosthesis |
| **PalaVeneer 6**<br>12 Moulds, 16 Shades | | | | **PalaVeneer 8**<br>6 Moulds, 16 Shades | | | |
| **Premium 6**<br>22 Moulds, 18 Shades | | | | **Premium 8**<br>8 Moulds, 18 Shades | | | |
| **Mondial 6**<br>28 Moulds, 18 Shades | | | | **Mondial 8**<br>10 Moulds, 18 Shades | | | |
| | | | | **Idealis 8**<br>8 Moulds, 18 Shades | | | |

# Pala
## Innovative Technologies for Tooth Longevity.

The high quality of our Pala Premium, Pala Mondial, Pala Idealis denture teeth and our PalaVeneer shell teeth is based on modern fabrication methods and the use of particularly high quality materials. These are, of course, developed and manufactured by Kulzer in Germany: Every Pala Mix & Match denture tooth and veneer shell used worldwide comes from the Pala Production Plant at Wasserburg near Lake Constance.

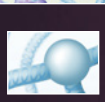
### NanoPearls® – for highest abrasion and fracture resistance



- The patented NanoPearls material is comprised of unique hybrid-fillers combined with a tough-elastic matrix
- The result: high abrasion resistance, natural opalescence and surface quality coupled with high fracture resistance and longevity
- 100 % colour stable materials for lasting colour stability

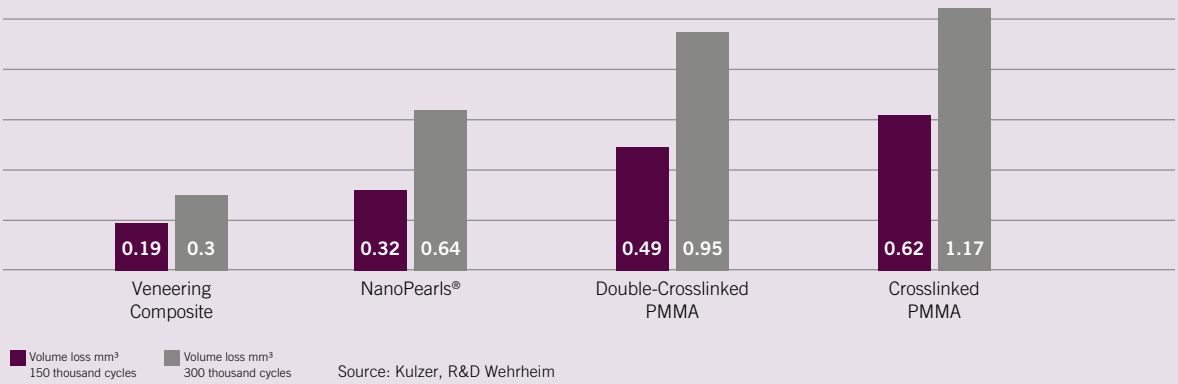
Organic filler with diffusion zone to the matrix

Silan modified nanofillers in tough-elastic matrix



Highly crosslinked tough-elastic matrix

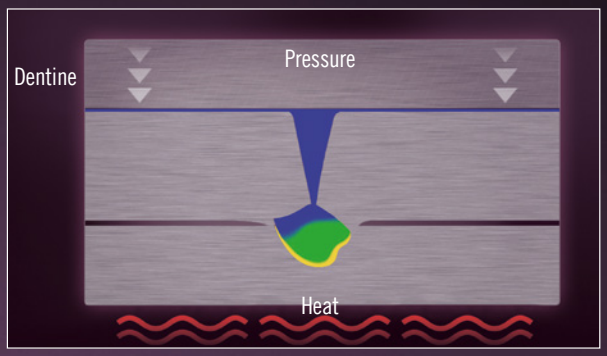
**Wear Comparison of Denture Teeth Materials, 3-Body-Wear-Test based on ACTA-method, Amsterdam**




Source: Kulzer, R&D Wehrheim

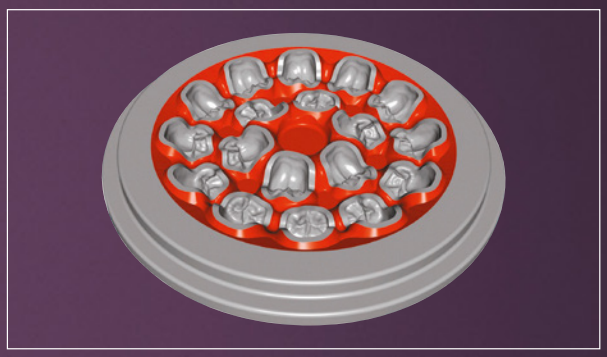
# High product quality based on modern fabrication methods.

## The INCOMP Process – for porosity free denture teeth




- The worldwide unique fabrication process prevents porosities and inclusions in denture teeth and ensures extreme density
- The result: Reliable quality of every tooth

## CAD/CAM technology – for constant high quality



- Computer aided development and fabrication allows the highest precision
- Guaranteed 100 % matched pairs, function, and dimensional accuracy
- Always the best, always reliable

## PalaVeneer®

# More room for perfect results.

The PalaVeneer veneer system based on Pala Premium and Pala Idealis rounds off the product range of the Pala brand from Kulzer perfectly. Thanks to the modular structure of all Pala tooth lines, it is now easily possible to combine full-depth teeth and veneers in the Pala Mix & Match concept. So there are no limits to your design flexibility as a dental technician.

**Björn Maier, Master Dental Technician:**

*"The veneers make it easier for the dental technician to plan dental work. The reproducible, oval shape of the PalaVeneers also allows me to produce morphologically supportive tertiary constructions with the help of CAD/CAM technology."*

## PalaVeneer® – The facts

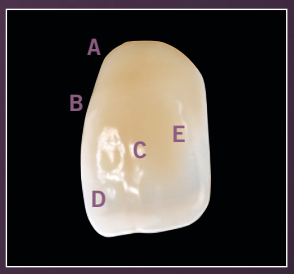
- Maximum attainable overall aesthetic in limited spaces and functionally difficult cases.
- Thin shells, reduced fissure depth and an extended cervical area.
- Can be combined with all Pala tooth lines and PalaVeneer shells in the Pala Mix & Match concept.
- Absolute trueness to colour, form and function.
- Tooth material with NanoPearls® for high abrasion stability and fracture resistance.

## Optimal working

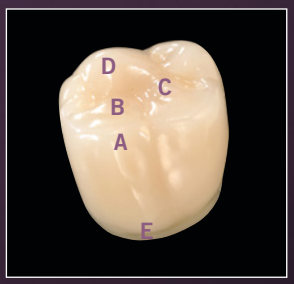
You save time as there is no need for time-consuming grinding of full-contour teeth or individual veneers. Thanks to their reduced thickness, the PalaVeneer veneer shell can be prepared without time-consuming processing. This ease encourages experimentation, for example by varying the positioning of the tooth to see how you can get the very best out of a situation.

## Applications

- Telescopic work
- Implant structures (backward planning)
- Model cast prosthetics
- Cover dentures
- Aesthetic try-ons
- Laboratory manufactured temporary restorations
- CAD/CAM bridges and bars




PalaVeneer 6
A Wide tooth base
B Lifelike labial surface
C Natural layering
D 3D multilayering
E Naturally contoured labial surface




PalaVeneer 8
A Lifelike, flat cusps
B Lifelike fossa
C Shallow fossa
D Provision for spot grinding in the incisal edge
E Widened base and more volume

For optimal bonding, we recommend PalaVeneer Dentine, a PMMA-based, tooth-coloured acrylic. More on page 28.

## Pala Premium
# Highest Aesthetics for the High Demands.

Pala Premium are the exceedingly high-quality denture teeth from Pala. They meet the highest demands of aesthetics and function, and are extremely lifelike. They are the only denture teeth on the market aimed specifically at fixed-removable dentures and are easily integrated with residual dentition.

**Dr Paulo Malo, president and CEO of the MALO CLINIC Health and Wellness, recommend Premium Denture Teeth from Kulzer:**

*“Our patients expect the best and that’s exactly what we give them! We only use Premium teeth in our clinics as no other denture tooth can meet our expectations.”*

## Pala Premium – the facts

- Denture Acrylic with NanoPearls® for high Abrasion Resistance and Lifelike Opalescence
- Our teeth can be applied to any set-up concept or for eugnathic and disgnathic jaw relationships and give the technician greater flexibility
- Absolutely Lifelike: True to nature moulds identical with natural teeth
- Hardly distinguishable from residual dentition
- Widened base and increased volume for improved papillae contouring
- Pala Premium is also available as PalaVeneer shell teeth

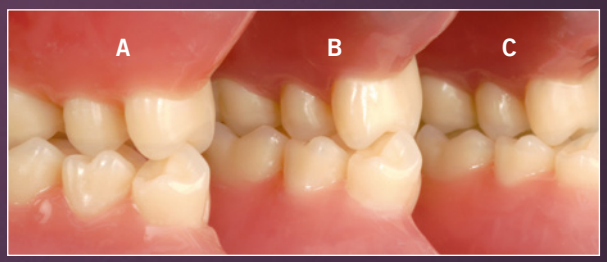
## Anteriors widen the Pala Premium Portfolio

Four additional Pala Premium anteriors are a prominent highlight of the extended Pala Product range. These voluminous anteriors are remarkable for:

- A widened base, greater use of tooth length and depth through greater volume, improved overall aesthetics, easier masking
- Less concave palatal areas means lower lateral forces and higher stability
- Larger proximal areas mean best possible proximal closing and better overall aesthetics
- Rounded canines give patients a more natural appearance

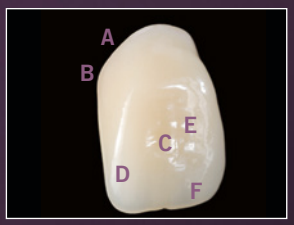
### Main Indications:

- Implant-borne and fixed-removable prosthetics
- Veneering technique, exclusive full denture prosthetics



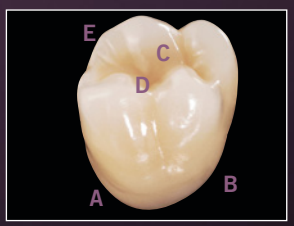

Multifunctional Set-up with Pala Premium 8 in eugnathic and disgnathic jaw relations with the following occlusions:
A Tooth-to-tooth occlusion
B Tooth-to-two teeth occlusion
C Combined

Premium 6 Anteriors




A Variable cervical area
B Wide tooth base
C Lifelike labial surface
D Layering simulates natural teeth
E 3D-Multilayering
F Naturally contoured labial surface

Premium 8 Posteriors




A Variable cervical area
B Wide tooth base
C Occlusion design allows lingual and balanced occlusion set-up
D Width of occlusal surface similar to natural teeth
E Provision for spot grinding in the incisal edge

# Setting new standards –
# With **Pala Idealis**, the Mix & Match posterior line.

The innovative Pala Idealis posterior denture teeth with their lifelike flat cusps are a good addition to Pala Mix & Match. Their characteristics are tailored to suit implant-borne and geriatric prosthetics.

**Fabrizio Molinelli, Dental technician from Italy:**

*"Pala Idealis fully aligns itself with all current requirements for use on implant superstructures. The combination of aesthetics and functionality is truly outstanding."*

## Pala Idealis – the facts

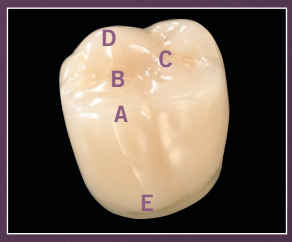
- Perfect coverage of tertiary and implant structures through wider cervical area and high tooth volume
- Better interdental closure and optimal cleanability through bigger proximal surfaces
- Safe and fast set-up through definite bite index and maximized freedom in the centric relation
- Aesthetically and functionally harmonised with the tooth lines Pala Premium & Pala Mondial
- High wear, and break resistance due to Nanopearls material technology.
- The special Pala Idealis morphology reduces excessive initial wear
- Pala Idealis is also available as PalaVeneer shell teeth

## Best possible manufacturing

Pala Idealis aesthetically perfectly integrated

You benefit from the manufacturing process of our new posteriors by easy setting-up for faster processing times and improved incorporation and masking of implant-borne frameworks and telescopic restorations. In addition, the unique NanoPearls® material of Pala Idealis provides even more reliability through increased fracture resistance.

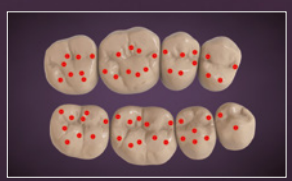
## Future Oriented Denture Tooth

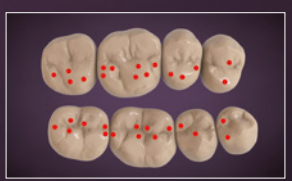



The true to nature flat cusp angle of the upper and lower posteriors reduces lateral forces and parafunctional tendencies and keeps early abrasion low. Patients enjoy the best possible oral comfort.

A Lifelike, flat cusps
B Lifelike fossa
C Shallow fossa
D Provision for spot grinding in the incisal edge
E Widened base and more volume

## Contact points in balanced and lingualised occlusion





Balanced occlusion concept
Tooth-to-two-teeth occlusion

Lingualised occlusion concept
Tooth-to-two-teeth occlusion

## Pala Mondial

# Proven function that caters for all demands.

Pala Mondial is the time tested denture tooth that meets all the requirements of modern dental technology. It is the first line of denture teeth to feature NanoPearls® and guarantees high abrasion resistance. The large selection of mould designs provides much flexibility when choosing teeth for the denture.

**Peter Lerch, Denturist from Switzerland:**

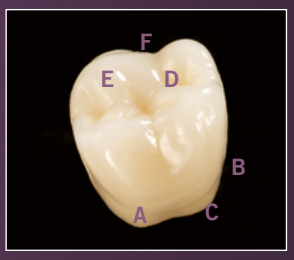
*"I use Kulzer teeth because they offer me a wide range of possibilities for a safe and individual set-up. Also dentists like the aesthetics and function of dentures made with Kulzer teeth."*

## Pala Mondial – the facts

- Fast and unambiguous set-up
- Precisely defined centric means simple set-up
- Precise function without time consuming spot grinding
- NanoPearls® guarantees high abrasion resistance and durability
- Lifelike and vivid surface structures match the basic tooth form and appear harmonious.
- Widened tooth base and increased volume aid papillae contouring and eliminate dark recesses and vertical edges.

Mondial Anteriors

A Variable cervical area
B Wide tooth base, soft transition
C Lifelike surface structure
D Layering + Material = Opalescence

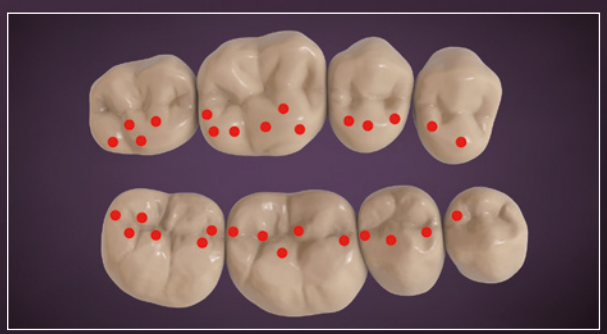



Mondial Posteriors

A Variable cervical area
B Wide tooth base
C Bilaterally digitalised, symmetrical
D Functionally improved occlusal design
E Provision for spot grinding in the incisal edge
F Lifelike cusp design

## Set-up in lingualised occlusion with Pala Idealis 8

- Mondial 8 can be combined with Idealis 8 for set-ups of posterior teeth.



- Contact points of a lingualised occlusion with Mondial 8 in the upper jaw and Idealis 8 in the lower jaw.

# Pala Mix & Match DS
## Artificial teeth for CAD/CAM process.

### Bringing together classic and digital dental technology
With Pala® Mix & Match DS

When teeth are adjusted to fit the individual patient, this is done by hand. In full denture prosthetics, the vertical adaption is mainly performed basally. In digital full denture prosthetics, precision is particularly key to transferring the virtual patient situation to reality. In the digital sets Pala Mix & Match DS, the shapes of the Pala tooth lines Pala Premium 6, Pala Mondial 6 and 8 as well as the Pala Idealis 8 are held in specially manufactured frames. The appropriate teeth and the denture tooth blanks are stored as a dataset in the software Ceramill® D-Flow (Amann Girrbach) and can be milled for each individual patient.

The Pala Mix & Match principle also allows you to combine all of Kulzer's Mix & Match Pala tooth lines Pala Idealis, Pala Premium and Pala Mondial in digital prosthetics, to achieve individual, professional results. The ability to combine these tooth lines with one another, allows you to respond flexibly to individual requirements so that you can provide your patients with even more accurate and age-appropriate dentures.

The tooth lines Pala Idealis and Pala Mondial can be set up in different occlusal standard concepts:

Set up concepts

## Digitally processed tooth lines

**Premium 6 (DS) –** Highest aesthetics for high demands

**Mondial 6 (DS) –** Lifelike harmonious tooth shapes

**Mondial 8 (DS) –** Precisely defined centric with proven functionality

**Idealis 8 (DS) –** Freedom in the paths of movement due to naturally reduced cusps

The contact points are regained in the articulator after processing.
The digital sets are available in shades A1, A2, A3, A3.5 and B1.

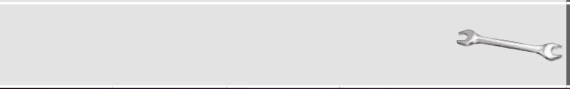
# Pala Acrylics
## The best solution for every situation.

Being the inventor of heat-curing and PMMA-based denture acrylics, we set the direction of the market. You can be sure that: Each of our acrylics exceeds all specifications required by International Standards and is subject to rigorous quality control.

Choose your denture acrylic from our Pala programme and you can be sure of durability, colour-stability, mucosal compatibility, and great aesthetics in every indication.

## Pala Indications:

Use the following diagrams to help you make your choice.
They each symbolise one indication or fabrication technique.

| Product | Indication | Fabrication Method |
|---|---|---|
| PalaXpress ultra | | |
| PalaXpress | | |
| Palapress | | |
| Palapress vario | | |
| Paladon 65 | | |
| Paladur |  | |

= Full Dentures

= Partial Dentures

= Implant over dentures

= Pouring Technique

= Injection Technique

= Repair Material

= Splint Fabrication

= Press-Pack Technique

# The benchmark in prosthetics. Past, Present and Future.

A success story began 80 years ago with the invention of Paladon®, the first heat-curing denture acrylic. Pala® from Kulzer now stands for aesthetic, efficient and long-lasting prosthetics solutions worldwide. With its large selection of high-quality denture acrylics, artificial teeth and accessories, Pala from Kulzer is now the all-round system for effective prosthetics.

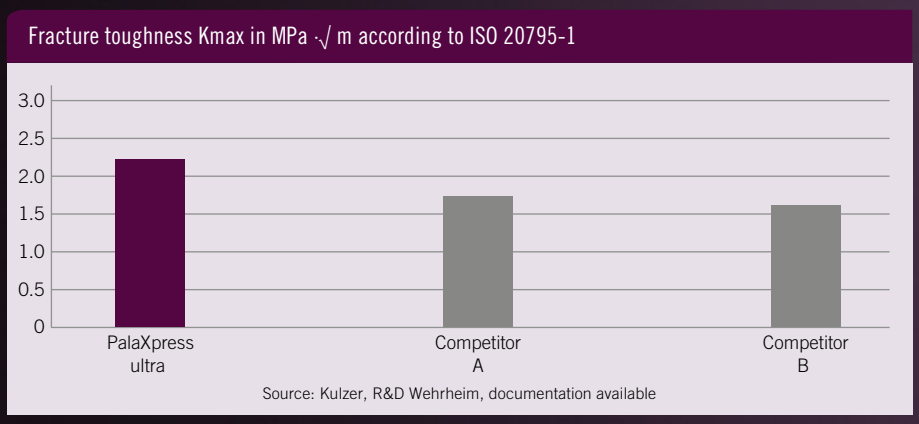
# PalaXpress® ultra

## The universally applicable cold-curing denture acrylic.

The secret behind this reliable and durable high-performance denture acrylic is a new material with an unique composition. This connects during polymerisation particularly well with the other ingredients. The result: High stability and elasticity. PalaXpress ultra dentures are very strong and with their higher fracture resistance they can be particularly recommended for implants.

### The advantages in summary:

- An increase of durability compared with conventional cold-curing denture acrylics
- Reliable during processing and polishing
- Easy to mix and process due to unique process and distribution
- Lighter, more delicate dentures possible than with conventional denture acrylics
- Decline of goodwill repairs to a minimum
- Highly satisfied customers and patients
- Extremely durable with even surface structure and best aesthetics
- Norm checked colour stability




Fracture toughness is a measure for break resistance.

Pouring technique with PalaXpress ultra

**Start video**

**www.kulzer.com/pouring_technique**

# PalaXpress® ultra

## The universally applicable cold-curing denture acrylic.

Innovation is the driving force at Kulzer, the inventor of groundbreaking dental acrylics. Kulzer has created a high performance denture base material with the distinct competitive advantage of enabling the production of durable and long lasting dentures. The cold-curing acrylic PalaXpress ultra stands for higher fracture resistance and impact strength.

# PalaXpress®

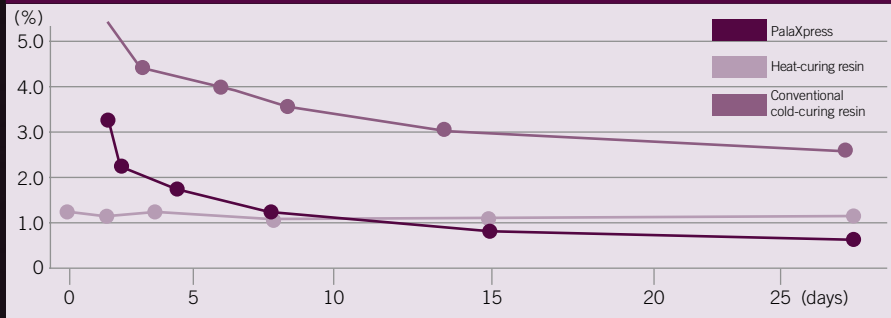
## The precisely fitting universal denture acrylic.

PalaXpress is the material for a lot of indications with acrylic prosthetics. Its unique formula provides a wide choice of either pourable or injectable processing. Remarkable: You can pour several denture saddles in one procedure thanks to over 10 minutes pouring time.

### The advantages in summary:

- Universal denture acrylic for a lot of indications
- High precision with Palajet
- Colour consistency of full and partial dentures or repairs
- Pour several saddles in one procedure
- Completion of opposite saddle without intermediate polymerisation
- Very good mucosal compatibility thanks to low amount of residual monomer
- Colour stability thanks to catalyst system
- Unique feed system of Palajet injection process
- Cadmium free

Comparison of Residual Monomer Content PalaXpress




Source: Kulzer, R&D Wehrheim, documentation available

# Palapress® / Palapress® vario –
The classic cold-curing denture acrylic.

Palapress and Palapress vario are denture acrylics for repair work, rebasing, and adding saddles to partial denture bases. Thanks to their particular handling characteristics, all tasks are completed safely, simply, and very efficiently.

The best thing: You can distinctly improve your fabrication process by utilising the different polymerisation sequences of Palapress and Palapress vario.

Palapress vario for adding up to two saddles in one session, indirect rebasing, restorations, and enlargements.

## Compact Knowledge:
## Consistent denture colours

A “beautiful“ and natural-looking denture colour is the precondition of aesthetic dentures. Pala offers a wide range of veined or unveined colours. Every batch is colourmetrically measured during production to reduce variations within the complicated mixture of pigments. This is how we guarantee batch to batch and product to product colour consistency. You achieve the best possible aesthetic results even with a combination of different materials.

It goes without saying that all Pala denture materials are cadmium free.

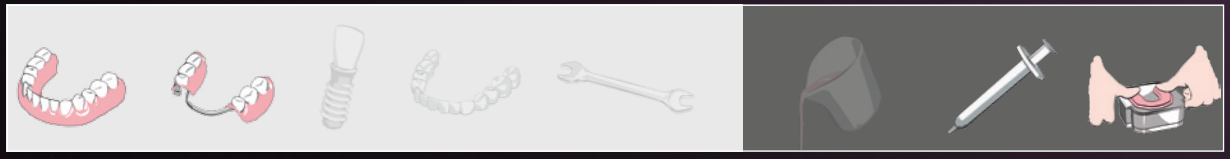
# Paladon® 65

## The proven heat-curing denture acrylic.

Acrylic for full dentures. We have been setting standards in prosthetics since 1930 with Paladon, the first ever heat-curing denture acrylic. The development of Paladon to Paladon 65 is still today valued for its special mechanical characteristics. Paladon 65 is therefore very widespread. Its pleasingly pliable consistency allows the acrylic to be easily packed. The unusually long working time of 60 minutes gives you the freedom to fabricate several dentures at the same time.

### The advantages in summary:

- Long working time allows fabrication of several dentures at once
- Dentures with long term stability
- Low shrinkage means best possible fit
- Colour stable
- Low residual monomer after fabrication
- Available in four colours
- Best possible colour coordination with other Pala denture materials
- Cadmium free



# Paladur® –
## The cold-curing acrylic for repairs.

Paladur is our rapid cold-curing denture acrylic for the repair and efficient restoration of dentures. Thanks to a coordinated formula, hardening of thin layers is possible in polymerisation units without additional technical effort. Simple and efficient enlargements and additions, replacing missing teeth, as well as partial and full rebasing. Paladur's excellent physical characteristics make it the ideal acrylic for quick repairs.

### Characteristics and advantages in summary:

- Easy to use pourable liquid consistency
- With thin layers also for use without pressure curing unit – no need for more equipment
- Best fit thanks to low shrinkage
- Available in four colours
- Colour coordination with all other Pala denture acrylics
- Cadmium free

### Compact Knowledge: Heat and Cold-curing

Heat and cold-curing acrylics have very different chemical and physical characteristics. Dentures made from heat-curing acrylics reach their final material values directly after polymerisation. Cold-curing acrylics, on the other hand, "improve" their characteristics within the following 12 – 24 hours. That is why these dentures should be placed in warm water after fabrication – ideally over night. This way, the patient receives a denture at its functional and compatible best from the very start.

# Palajet®/ Palajet® duoflask

## The pneumatic injection unit for full dentures.

Our injection unit is not only suited to match Pala denture acrylic's material characteristics exactly, but is also very easy to use. The ingenious feed system cuts out dosage errors and the working characteristics are always identical.

### Injecting:

The piston presses the premixed acrylic dough into the flask. The injection moves from bottom to top: This allows even, bubble free filling. Once the lever has been activated, the injection process begins automatically. At cold curing materials the flask remains a further 5 minutes in the injection unit before final polymerisation takes place.

### The advantages in summary:

- No increase in vertical dimension
- High precision and excellent fit
- Hardly any finishing needed
- Easy to operate
- Maintenance-free
- Effortless operation

**For our Dental Science informations about Palajet please take a look at: kulzer.com/palajet**

Palajet duoflask: Preparing and polymerising two dentures in one go.

# Palamat® elite

## Pressure curing unit for heat and cold-curing acrylics.

The Palamat elite can cure up to three flasks or six dentures simultaneously. The unit is compatible with all articulator sizes and with its four temperature programs it is suitable for heat and cold-curing acrylics.

### The advantages in summary:

- Suitable for various denture acrylics
- Timer for user-defined polymerisation
- Choice of Presets
- Simple installation
- User-friendly LED display for easy use

### Compact Knowledge: Kulzer Water Bath Curing for heat curing materials

The legendary Kulzer water bath curing technique is renowned as the best possible curing method for dental acrylics. It has the lowest residual monomer results with ideal mechanical characteristics. The flask must be covered with at least 3 ltrs of warm water. The bath is heated to 70°C over 30 minutes and held for 90 minutes. Then the bath is heated to boiling point over 20 minutes and held for 30 minutes. The water bath cools slowly allowing the slow release of tension after curing. This greatly increases the lifetime and fit of the denture acrylic.

### Allergic Reactions

Measured on the total number of restorations fitted, allergic Reactions to PMMA-based denture acrylics are still quite seldom. To lessen the risk even further, you can do the following: Always comply with recommended processing techniques and notices in the instructions for use. Because: Only Pala acrylic dentures cured completely according to regulations are exempt from free peroxide (the sensitising form). The residual monomer content is also minimised.

# PalaVeneer Dentine®

## The tooth-coloured luting composite.

PalaVeneer Dentine is a PMMA-based cold-curing acrylic for the bonding of PalaVeneer veneers.With 16 Vita shades and an incisal material, it has all sections of the colour spectrum covered. Due to the outstanding processing properties, PalaVeneer Dentine can be integrated into daily workflows with no problems at all.

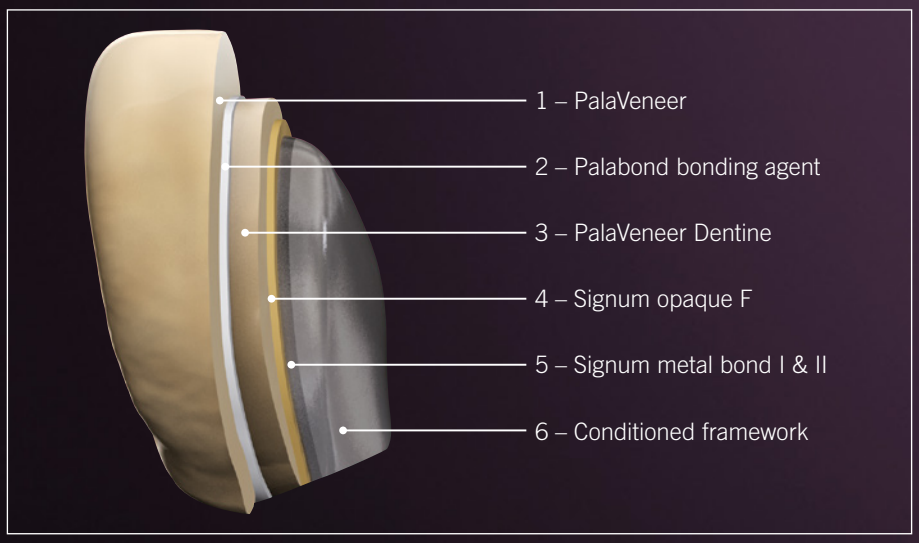
### Range of indications:

- Fixing and backing PalaVeneer veneer shells on metal frameworks
- Fixing and backing milled acrylic teeth on metal frameworks
- To restore/bond facets
- To produce long term temporaries (facet technique)
- To aesthetically finish pre-fabricated teeth

### The advantages at a glance:

- Colour-coordinated to PalaVeneer veneer shells
- Excellent working consistency
- Great polishing characteristics
- Excellent bond between PalaVeneer Dentine and PalaVeneer veneer shells
- Optimal working time

### Overview of the system:




Layering

The PalaVeneer system draws on tried-and-tested components from the Signum and Pala segments, which offers you excellent bonding characteristics for the veneer system.

Application video with PalaVeneer System

**Start video**

**www.kulzer.com/palaveneer**

# Pala cre-active®

## The light-curing colourfluid system for natural-looking dentures.

The light-curing colour fluids from Pala cre-active are used for the individual characterisation of denture base materials. In combination with Signum connector, it is virtually unrivalled in the individualization of partial and total dentures and implants.
The denture acrylic is roughened by means of sandblasting (50 µm) or using a diamond. After the exposure time and polymerisation of Signum connector, Pala cre-active can then be applied in the shade and consistency of choice. Pala cre-active is available in 12 shades with different consistencies in a set and as refills. The range of available consistencies and shades allows the creation of highly individualised gingival areas.
You can see how to work Pala cre-active easily step by step at kulzer.com.

In addition, you can also download our working recommendations from there free of charge as a PDF.

### The advantages at a glance:

- Easy, fast application.
- Corrections can be made quickly.
- Intensive colourfluids (stains) in 6 different shades.
- Gingiva materials as a base in 6 different hues.
- Good grinding and polishing characteristics

Application video with
Pala cre-active

**Start video**
**www.kulzer.com/palacreative**

# Pala Accessories
## The Complete Selection for Quality Prosthetics.

Besides high-quality denture teeth and acrylics, Pala offers a range of essential accessories for economic dental technology.

Aislar – the alginate based universal separating solution

Good separation if the basis for well fitting denture restorations. Aislar fulfils the many requirements of both heat and cold-curing acrylics:

- Perfect separation of acrylics/gypsum and composite/gypsum
- Smooth surfaces
- Unimpaired curing of denture surfaces
- High precision (no layer forming)
- Short drying time
- Good shelf life

Palaferm. Good insulation is the basis for a precisely fitted prosthetic restoration.

Palaferm was specially developed for the insulation of acrylics and acrylic models and is also suitable for the insulation of plaster. A single coat painted on the acrylic produces a wafer-thin insulation film which can easily be removed again manually later.

Palaseal – the light-curing sealant adheres to all denture base materials and PMMA-based temporary crowns and bridges

The sealant prevent plaque or food residue build-up and thus unpleasant odours.

Palabond – the reliable bond between denture material and acrylic denture teeth

Functional and durable dentures need a stable and secure bond between denture material and denture teeth. Used consistently, Palabond transparent bonding agent prevents denture teeth from breaking off. Palabond increases the bond between denture teeth and denture base, as well as the bond between repair material and base material.

Palatray XL – light curing tray material

Larger, anatomically pre-shaped tray material suited for fabricating:

- Functional and custom impression trays
- Bite registration
- Trial bases
- Gothic arch registration

The material is delivered in a solid plastic box. A special aroma card emits a pleasant smell of peaches.

Palavit L – cold-curing acrylic for impression trays

Palavit L stands for reliable and rapid curing: The impression trays are particularly deformation resistant and tension-free. Thanks to the intense yellow colour, markings on the tray show up very well.

Palavit M is first choice for permanent models, particularly in orthodontic work. The cold-curing resin ensures fast and reliable polymerisation without more effort. Exact detail reproduction and low shrinkage make it the best choice for perfect permanent models with long-term stability.

# PalaMeter

## The versatile prosthetic measuring instrument.

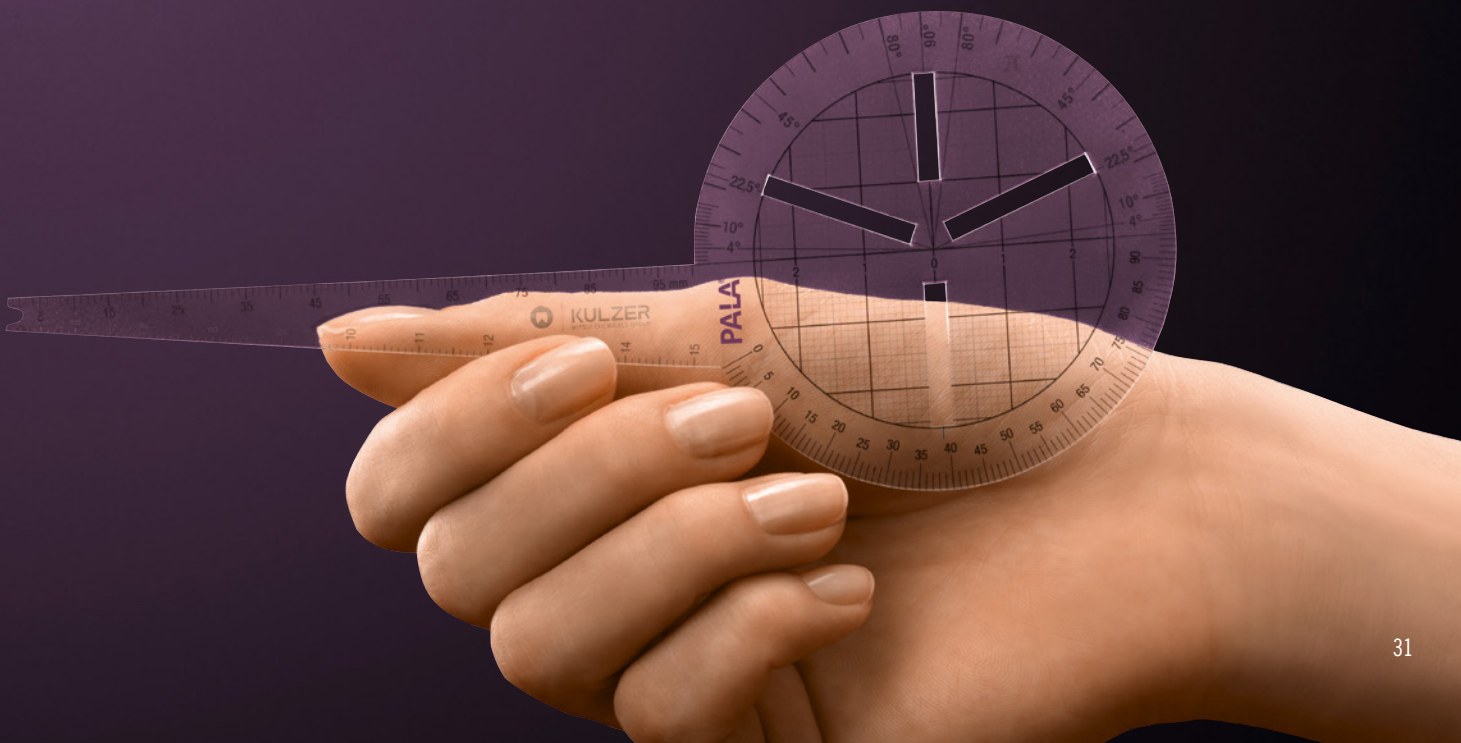
The PalaMeter is a tool developed in cooperation with dental technicians and dentists to simplify daily work considerably. It unites numerous measurement methods in one intelligent aid and is thus completely suited to your requirements.

- Simple to use
- Particularly well laid out
- Versatile use
- Universally applicable by uniting previous dental measurement tools
- Very low cost

Discover the many possibilities of the PalaMeter with our new step-by-step guide at **kulzer.com.**

Choose your Pala denture teeth as a result of the quickly and simply won measurements – just as quickly and simply with our innovative PalaSelect 1 tool.

You don't have a PalaMeter or Pala Select tool? Please ask your Kulzer sales representative!



# Sharing knowledge means gaining trust – **Pala**. That's Prosthetics.

## PalaXpress ultra

Safe and durable universal cold curing denture acrylic for every situation

| Delivery form | Art. code |
|---|---|
| 80 ml | |
| liquid | 66034268 |
| 500 ml | |
| liquid | 66034251 |
| 100 g-powder | |
| pink | 66034265 |
| pink veined | 66034269 |
| R50 veined | 66034264 |
| pink live | 66034263 |
| pink opaque | 66034266 |
| clear | 66034267 |
| 1000 g-powder | |
| pink | 66034252 |
| pink veined | 66034253 |
| R50 veined | 66034254 |
| pink live | 66034259 |
| pink opaque | 66034258 |
| clear | 66034255 |
| 12000 g-powder | |
| pink | 66046221 |

## PalaXpress

Universal cold curing denture material

| Delivery form | Art. code |
|---|---|
| 80 ml | |
| liquid | 64711631 |
| 500 ml | |
| liquid | 64710513 |
| 100 g-powder | |
| pink | 64711630 |
| pink opaque | 64712763 |
| pink veined | 64714991 |
| clear | 64711693 |
| R50 veined | 64714992 |
| pink live | 66020112 |
| 1000 g-powder | |
| pink | 64710515 |
| pink opaque | 64712764 |
| pink veined | 64710516 |
| clear | 64711485 |
| R50 veined | 64711398 |
| pink live | 66020111 |
| 12000 g-powder | |
| pink | 64712432 |

## Palapress

Pourable, cold curing denture material

| Delivery form | Art. code |
|---|---|
| 80 ml | |
| liquid | 64707784 |
| 500 ml | |
| liquid | 64707785 |
| 100 g-powder | |
| pink | 64707794 |
| pink veined | 64707796 |
| clear | 64707798 |
| 500 g-powder | |
| pink | 64707805 |
| clear | 64707809 |
| 1000 g-powder | |
| pink | 64707814 |
| pink opaque | 64707815 |
| pink veined | 64707816 |
| clear | 64707817 |
| R50 veined | 64707818 |
| 12000 g-powder | |
| pink | 64712428 |

## Palapress vario

Pourable, cold curing denture acrylic with longer working time

| Delivery form | Art. code |
|---|---|
| 80 ml | |
| liquid | 64707863 |
| 500 ml | |
| liquid | 64707864 |
| 100 g-powder | |
| pink | 64707870 |
| clear | 64707873 |
| 500 g-powder | |
| pink | 64707879 |
| clear | 64707882 |
| 1000 g-powder | |
| pink | 64707889 |
| pink opaque | 64707890 |
| pink veined | 64707891 |
| clear | 64707892 |
| R50 veined | 64707893 |
| 12000 g-powder | |
| pink | 64712430 |

## Paladur

Cold-curing acrylic for repairs

| Delivery form | Art. code |
|---|---|
| 80 ml | |
| liquid | 64707937 |
| 500 ml | |
| liquid | 64707938 |
| 100 g-powder | |
| pink | 64707945 |
| clear | 64707948 |
| 500 g-powder | |
| pink | 64707954 |
| pink veined | 64707956 |
| clear | 64707957 |
| 1000 g-powder | |
| pink | 64707963 |
| pink veined | 64707965 |
| clear | 64707966 |
| R50 veined | 64707967 |

## Paladon 65

Heat curing denture acrylic

| Delivery form | Art. code |
|---|---|
| 80 ml | |
| liquid | 64707673 |
| 500 ml | |
| liquid | 64707674 |
| 100 g-powder | |
| pink | 64707687 |
| 500 g-powder | |
| pink | 64707699 |
| 1000 g-powder | |
| pink | 64707706 |
| pink veined | 64707708 |
| clear | 64707710 |
| R50 veined | 64707711 |
| 12000 g-powder | |
| pink | 64712424 |

## PalaVeneer Dentine

Tooth coloured cold curing denture acrylic for deposition

| Delivery form | Art. code |
|---|---|
| 80 ml | |
| liquid | 66057637 |
| 25 ml | |
| liquid | 66057636 |
| 35 g powder | |
| A1 | 66057540 |
| A2 | 66057565 |
| A3 | 66057566 |
| A3,5 | 66057567 |
| A4 | 66057568 |
| B1 | 66057569 |
| B4 | 66057622 |
| C1 | 66057623 |
| C2 | 66057624 |
| C3 | 66057625 |
| C4 | 66057626 |
| D2 | 66057627 |
| D3 | 66057628 |
| D4 | 66057629 |
| I | 66057632 |
| Test Set, A3 | 66057633 |
| Set, 6 Shades + liquid | 66057634 |

## Pala Lab Putty

High Definition Laboratory A-Silicone putty material.

| Delivery form | Shore A hardness 90 3 kg (2x1,5 kg) | Shore A hardness 90 10 Kg (2x5 kg) | Shore A hardness 65 2,6 Kg (2x1,3 kg) | Shore A hardness 65 9 Kg (2x4,5 kg) |
|---|---|---|---|---|
| Art. code | 66057432 | 66057433 | 66057434 | 66057435 |

## Pala cre-active
Light-Curing Colorfluid System

| Delivery form | Art. code |
|---|---|
| **set** | 66033445 |
| **refills 1x3g** | |
| **Colourfluids** | |
| white | 66033447 |
| polar | 66033448 |
| pink | 66033449 |
| red | 66033450 |
| maroon | 66033461 |
| black | 66033462 |
| **Gingiva** | |
| gingiva pink | 66033463 |
| gingiva shade 200 | 66033464 |
| gingiva shade R50 | 66033465 |
| gingiva light pink | 66033466 |
| gingiva clear | 66033467 |
| gum | 66033468 |

## Palabond
Secure bonding agent for use between denture material and acrylic teeth

| Delivery form | Art. code |
|---|---|
| 45 ml bottle | 6470 8082 |

## Aislar
Complete isolation for acrylic dentures

| Delivery form | Art. code |
|---|---|
| 80 ml-bottle | 6470 8055 |
| 500 ml-bottle | 6470 8057 |
| 1000 ml-bottle | 6470 8058 |

## Palaferm
Insulation of acrlyic models

| Delivery form | Art. code |
|---|---|
| 80 ml bottle | 6470 7627 |

## Palavit M
Acrylic for fabrication of permanent models

| Delivery form | Art. code |
|---|---|
| 500 ml-liquid | 64708034 |
| 500 g-powder | 64708036 |

## Palajet duoflask
Double flask for Palajet

| Art. code |
|---|
| 64715798 |

## Palajet singleflask
Single flask for Palajet

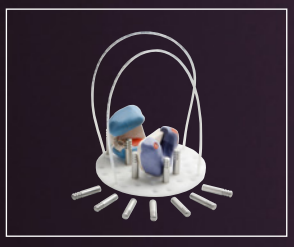
| Art. code |
|---|
| 64710524 |

## Palajet
Pneumatic injection unit

| Delivery form |
| --- |
| Base unit incl. injection, cylinder with cover,<br>1 Palajet Duoflask,<br>12 inserts for injection cylinder incl. 12 lid inserts,<br>50 sealing disks,<br>1 Pala dosing cup,<br>1 Pala mixing cup,<br>1 Pala mixing spatula,<br>sprue wax (32 strips – Ø 7 mm, 32 strips – Ø 3 mm),<br>timer,<br>flask filling basket |
| **Art. code** |
| 66020450 |

## Palamat elite
Pressure polymerisation unit for cold-curing and heat-curing acrylic

| Delivery form |
| --- |
| with protective cover,<br>pneumatic tube,<br>with socket and hose clamp |
| **Art. code** |
| 66057663 |



## Palamat elite
Flexibel designed cuvette filling tray

| Art. code |
| --- |
| 66056911 |

## Palaseal / Palaclean
Palaseal: Light-curing denture and sealing resin
Palaclean: Brush cleaner

| Delivery form | Art. code |
| --- | --- |
| Combination package<br>2 x 15 ml Palaseal,<br>1 x 45 ml Palaclean,<br>5 x brush,<br>1 x mixing panel | 64708061 |
| Unit package<br>2 x 15 ml Palaseal | 64708063 |
| 1 x 45 ml Palaclean | 64708064 |

## Palavit L
Acrylic for customised impression trays with high shape stability

| Delivery form | Art. code |
| --- | --- |
| 500 ml liquid | 64708001 |
| 1000 g-powder | 64708011 |

# Accessories

| Product/ Delivery form | Art. code |
|---|---|
| **Palatray XL light-curing plate material**<br>50 pieces in box | 64715806 |
| **PalaXpress inserts for injection cylinder**<br>12 count, includes 50 sealing discs | 64710519 |
| 20 count, includes lids | 64714213 |
| **PalaMeter**<br>The versatile measuring instrument for prosthetics. | |
| **Introductory package**<br>Instructions with a PalaMeter | 66046015 |
| **Three PalaMeter Package**<br>Instructions with three PalaMeters | 66046016 |

| Product/ Delivery form | Art. code |
|---|---|
| **PalaXpress sprue wax**<br>32 strips x 7 mm,<br>32 strips x 3 mm | 64710520 |
| **PalaXpress dosing cup for use with the Palajet system**<br>1 piece | 64710521 |
| **Foils for mixing plate**<br>20 cm,<br>100 pieces<br>For clean mixing of laboratory silicones | 64708085 |
| **Pala mixing spatula**,<br>1 piece,<br>metal | 64708089 |

| Product/ Delivery form | Art. code |
|---|---|
| **Pala acrylic fibres**<br>For independent preparation of veined denture material and for customising dentures | 64708090 |
| **PE cut-outs**<br>For test pressings of heat-curing acrylics (e.g. Paladon ultra / Paladon 65) fabricated in press and pack technique approx.<br>80 pieces,<br>100 x 80 x 0.025 mm | 64708087 |
| **Brown glass bottles,**<br>80 ml<br>For optimised dosage of small portions of denture material (liquid)<br>5 pieces | 64708096 |

| Product/ Delivery form | Art. code |
|---|---|
| **Powder bottles**,<br>For 100 g,<br>5 pieces | 64708097 |
| **Pala mixing cup**<br>For clean mixing of our denture acrylics | 64708088 |
| **Pala dosing cup**<br>For dosing relatively large quantities of denture material<br>1 piece | 64708098 |
| **Brush for Aislar**<br>For optimal implementation of universal isolation<br>5 pieces | 64708092 |
| **Pala shade guide**<br>For optimised colour choice<br>1 piece | 64712020 |

## Pala Idealis

Innovative posterior denture teeth with lifelike flat cusps.

| Delivery form Pala Idealis 8 | |
|---|---|
| Shades: | 16 shades, A1–D4;<br>2 shades, bleach BL2–BL3 |
| Moulds: | 4 upper posterior moulds<br>4 lower posterior moulds |

## Pala Premium

High aesthetic teeth for high demands.

| Delivery form Pala Premium 6 | |
|---|---|
| Shades: | 16 shades, A1–D4;<br>2 shades, bleach BL2–BL3 |
| Moulds: | 14 upper anterior moulds<br>8 lower anterior moulds |

| Delivery form Pala Premium 8 | |
|---|---|
| Shades: | 16 shades, A1–D4;<br>2 shades, bleach BL2–BL3 |
| Moulds: | 4 upper posterior moulds<br>4 lower posterior moulds |

## Pala Mondial

Proven function that caters for all demands.

| Delivery form Pala Mondial 6 | |
|---|---|
| Shades: | 16 shades, A1–D4;<br>2 shades, bleach BL2–BL3 |
| Moulds: | 18 upper anterior moulds<br>10 lower anterior moulds |

| Delivery form Pala Mondial 8 | |
|---|---|
| Shades: | 16 shades, A1–D4;<br>2 shades, bleach BL2–BL3 |
| Moulds: | 5 upper posterior moulds<br>5 lower posterior moulds |

## PalaVeneer

The unique thin shells offer more room for aesthetic.

| Delivery form PalaVeneer 6 | |
|---|---|
| Shades: | 16 shades, A1–D4 |
| Moulds: | 9 upper anterior moulds<br>3 lower anterior moulds |

| Delivery form PalaVeneer 8 | |
|---|---|
| Shades: | 16 shades, A1–D4 |
| Moulds: | 3 upper posterior moulds<br>3 lower posterior moulds |

PALA®

In compliance with the European guideline 93/42/EWG our medical devices are CE-marked according to the classifications.

**New address as of 01 July 2017:**
KULZER GmbH
Leipziger Straße 2
63450 Hanau
Germany

**Contact in Germany**
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63450 Hanau, Germany
info.lab@kulzer-dental.com

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