

IvoBase[®] System

The innovative denture base

Precise
dentures
at the push of
a button



Quality denture prosthetics

The innovative prosthetics system

IvoBase® System

The time has come to revolutionize denture fabrication. The fully automatic IvoBase® denture base system is here. This precision polymerization system is easy to use; the quality of the results is exceptional. The system is based on a highly effective combination: The material is matched to the polymerization unit and vice versa.

The system is modelled on established high-tech products in terms of its ease of handling and precision. Its processes are guided, controlled and fully automated. The material complies with the latest research results – for the well-being of all the parties involved: patients, dentists and dental technicians. The future is here with the IvoBase system.

One system – many applications

For health's sake

As a result of the predosed units, users benefit from consistent, accurate mixing ratios. In addition, direct skin contact with the monomer is avoided.

Precision due to the compensation of shrinkage

The consistent flow of material compensates for volume shrinkage during the polymerization process. The result: precision fit, excellent finish, glossy basal surface.

Quality products from a single manufacturer

The appropriate tooth for every indication. The highly esthetic and functional SR Phonares® II tooth line is recommended for the fabrication of quality dentures with IvoBase.



“ After 35 years of producing quality prosthetic appliances, I can say that the IvoBase Material is without doubt one of the best injectable materials that we have ever used here at Egan Dental Laboratory.

It gives outstanding results, both in the fit and stability without compromise, time after time. ”

Richard Egan, DT, Great Britain

of the future



IvoBase® Injector

Compact bundle of functions: pressure, temperature and process control

Adequate space and an electrical connection are all that is needed to start work. The unit presses, injects, controls and polymerizes at the push of a button. What is more, the process is noiseless. Mixing equipment, a polymerization bath, noise and steam all belong to the past.

Experience leads to success: injection

Decades of experience have shown that polymerization shrinkage can be successfully compensated with the injection technique and process control. The outcome is clear when the denture is checked for proper occlusion.

Too beautiful for the dental lab

The unit is highly esthetic: clear outlines, streamlined operator elements and beautiful design.

With patients in mind: the RMR function

The material cured with the standard program has a low content of residual monomer. The optional RMR function (residual monomer reduction) reduces this content even further. The process takes about 10 minutes longer. However, the results speak for themselves. No other auto-polymerizing PMMA system on the market demonstrates low values of this kind.

Automated process offers reliability

A high quality standard is calculable and easy to achieve: The flask and the material are placed in the unit, the program is selected and started. Users enjoy a consistently high level of quality and precision.

Residual monomer content < 1 per cent

The standard residual monomer content of IvoBase is at the level of heat-cured materials. By using the RMR function, this critical value is clearly undercut: below one per cent.

Reduction of emission

No water bath, no compressed air – an electrical connection is all that is needed. The IvoBase system is reduced to the essentials and prevents unnecessary emissions.

of the future

The combined strength of a team: IvoBase® Injector and IvoBase® Material

The idea behind the system: It takes coordinated components, in other words, the equipment and the material, to make the IvoBase system a success.



The benefits at a glance

For patients

- Very comfortable to wear due to excellent fit, dimensional stability and surface finish.
- Confident feeling due to the low residual monomer content.

For clinicians

- Economical since the finished work corresponds to the wax-up.
- Optimum solution for a variety of patients.

For dental technicians

- Space-saving and location-independent as only an electrical connection is required.
- Time-saving since the injection and polymerization process is automatic.
- Constant quality as coordinated processes run independently.

IvoBase® Material

The best of two techniques

The quality advantages of a heat-curing polymer have been combined with the processing benefits of a cold-curing polymer to produce a new PMMA system.

In terms of its chemistry, IvoBase Material is classified as a cold-curing polymer. However, the quality of the material is equivalent to and even exceeds that of heat-curing polymers.

Two different types of material

IvoBase Hybrid is characterized by its short processing times. Within 35 minutes, the material thoroughly cures in the IvoBase Injector. The product is suitable for fabricating all kinds of removable dentures.

High fracture toughness is the outstanding characteristic of IvoBase High Impact. The material polymerizes in 50 minutes. It is suitable for the fabrication of structures that are exposed to heavy loading.

Predosed. Contact-free. Clean.

The predosed capsules always contain the correct amount of material. Both containers are opened, the monomer is added to the polymer and then the two components are mixed. In the process, the skin never comes in direct contact with the monomer. For health's sake.

Wide selection of colours

Seven colours are available: Pink, Pink-V and Preference, Pink-V Implant and Preference Implant (both featuring high masking ability) and two special colours, 34-V and Clear.



The standard and how IvoBase lives up to it:

	Specification Type 2, Class 1 (the standard)	Example for IvoBase Hybrid	Example for IvoBase High Impact
Flexural strength MPa	> 60	81	74
Flexural modulus MPa	> 1500	2700	2360
Residual monomer content in %	< 4.5	1.4	1.3
Residual monomer content in % with RMR*	–	0.7	0.7
Water absorption µg/mm ³	≤ 32	22.8	21.6
Solubility µg/mm ³	≤ 8.0	< 0.1	< 0.1
Fracture toughness (K _{max}) MPa m ^{1/2}	> 1.9	–	2.37
Tensile energy absorption (W _t) J/m ²	> 900	–	1450

According to EN ISO 20795-1:2008 Dentistry – Denture base polymers

*Reduction of monomer residue

For more information, please consult the special brochures on IvoBase Injector and IvoBase Material.



Removable Prosthetics

IvoBase® System forms a part of the “Removable Prosthetics” product category. The products of this category cover the procedure involved in the fabrication of removable dentures – from treatment planning and impression taking to aftercare. The products are optimally coordinated with each other and enable successful processing and application.



THESE ARE FURTHER PRODUCTS OF THIS CATEGORY:

Teeth

Expressive esthetics



Versatile, durable and easy to use

- State-of-the-art tooth mould design
- The latest denture tooth materials for all indications
- Available for different shade systems

Stratos®

Tried-and-tested articulators



Convincing quality and precision

Simulation of jaw movements to ensure high-quality restorations in removable and fixed denture prosthetics

Would you like to know more about the products of the “Removable Prosthetics” category? Simply get in touch with your contact person at Ivoclar Vivadent or visit www.ivoclarvivadent.com for more information.

Ivoclar Vivadent AG
 Benderstr. 2
 9494 Schaan
 Liechtenstein
 Tel. +423 / 235 35 35
 Fax +423 / 235 33 60
www.ivoclarvivadent.com

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