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# Catalogue

EN | Solutions for the dental laboratory



Zhermack
Dental

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# Catalogue
# 2018

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Progress, constantly. Creating value, to make the quality of the products accessible to the world. With creativity, and especially with the ability to transform every challenge into a development opportunity. To dynamically seize the market trends and understand the needs of partners, clients and customers. To make our solutions accessible worldwide. All this is the basis of Zhermack's growth, and since its foundation, over 35 years ago, the company has never ceased to develop and grow.

The clarity of the dream continues to drive Zhermack along this road, to "make you feel confident in everyday life". This is Zhermack's goal and philosophy of life. And it is a dream that is realised every day. Because everything aims at transmitting confidence. The way is charted with the awareness that Zhermack must contribute to improve oral health throughout the world, now and for future generations.

The contribution of Zhermack to people's oral health stems from the value that is given to the quality of its products. A quality that is born from scientific research and from the commitment to continuous education, to reach and always set new goals that contribute to improve the lives of people all over the world.

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*«Zhermack is a company that is committed with constancy to creating value, to make the quality of its products accessible worldwide. Zhermack's success resides in its ability to be creative, to transform every challenge into a growth opportunity, and to be dynamic, in order to seize the market trends and understand the needs of partners, clients and end customers».*

**Paolo Ambrosini**
General Manager

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# Our solutions.

Specific products and solutions for the dental laboratory, conceived exploiting the skills acquired with materials for the dental practice. Starting from development and production of duplication silicones and masks, Zhermack has extended its offer with quality products such as dental stones, resins and investments to satisfy the needs of the numerous laboratory processes involved in the fabrication of fixed and removable prostheses. Not just consumables, but also a range of equipment designed for laboratory use: ovens, innovative welders, sandblasters, steam generators and other appliances to satisfy the principal needs of the laboratory technician. A system to accompany lab technicians in their daily work.

# We produce measurable results.

Zhermack directly manages all the working stages - from formulation to packaging, from the production of raw materials to the mixing - to produce all its solutions. Validated and controlled processes are the guarantee with which Zhermack is able to offer products that are constant in their characteristics, as well as certified in quality.
This, together with the technological and process integration adopted over time, is what makes Zhermack one of the major producers in the field of dental products.

# Quality, certified. Year after year.

In 1993 Zhermack received the ISO 9001 certification for its Quality Management System. In 2007 it obtained the ISO 22716 for Cosmetics - Good Manufacturing Practices (GMP).
In 2012 the ISO 13485 certification for the Quality Management System of Medical Devices, necessary for the exportation of Zhermack products on the global market.
A system to guarantee Zhermack and its users.

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NOTE: The images and texts related to the technical data of the individual products and accessories may be changed during the period of validity of the catalogue. The images are only representative of the showed products. Not all products are sold in every country. For further information on product availability, please contact your local representative.



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# Solutions for the dental laboratory



## Hygiene

Impressions arriving from the dental practice are often contaminated with saliva and blood.
Correct disinfection is vital to protect the health of laboratory technicians.
Zhermack **disinfectants** with a **complete spectrum of action** are **enhanced with surfactants to improve the flow of the stone during pouring**.

- Zeta 7 Spray (with surfactants)
- Zeta 7 Solution (without surfactants)



## Model preparation

An accurate model is the basis of every well-made prosthesis.
Zhermack offers a **complete system** of impression materials, materials for models and equipment, all developed to be used as a system to ensure maximum precision. It also offers a series of scannable products to facilitate the lab technician with **CAD/CAM technology**.

- Platinum
- Zetalabor and Titanium
- Elite Double
- Gingifast
- Elite Dental Stones
- Elite LC Tray
- Elite Mix
- Doublemix
- SQM 25 N



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## Casting and welding

The prosthodontic market requires ever more speed and precision. Thanks to more than 35 years' experience, Zhermack has developed a combined offer to **optimise time in the laboratory**, without compromising on quality.

- Elite Vest
- DM
- DE
- Quasar
- Quasar Plus
- Cyclope



## Surface polishing and cleaning

**Surface cleaning and polishing** are simple operations, but fundamental for the quality of the finished prosthesis.
Zhermack's experience has enabled to develop a **wide range of products**, adaptable to the main laboratory needs.

- California and Sand S 24 R
- VAP 8A and VAP 8
- VAP 6A and VAP 6
- Water softener AD 8
- Zeta Sonic
- Zeta Sand



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# CAD/CAM solutions

The CAD/CAM solutions developed by Zhermack combine traditional techniques (impression taking, model preparation, prosthesis) with the most innovative digital techniques.
Saving time in data acquisition, simplifying and improving the quality of CAD/CAM processes.

The Zhermack offer includes a wide range of scannable silicones and stones readable without using reflective sprays.

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**Platinum 75 CAD** is an addition silicone recommended for all CAD/CAM users for making scannable bite regulation keys in the articulator.



Platinum 75 CAD

## Characteristics

- Accurate reproduction of details
- 75 Shore A hardness
- Mixing ratio 1:1

## Advantages

- Quicker working time to improve efficiency in the laboratory
- Easy to finish, including with bur
- Scannable without using reflective sprays






Platinum 75 CAD scan

| Mixing time (min:s) | Working time* (min:s) | Setting time* (min:s) | Detail reproduction (µm) | Elastic recovery | Strain in compression | Linear dimensional change (after 24 h) | Hardness (Shore A after 24 h) | Heat resistance |
|---|---|---|---|---|---|---|---|---|
| 0:30 | 1:00 | 7:00 | 20 | > 99.5 % | < 1 % | 0.05 % | 75 | 200 °C |

*The times mentioned above are intended from the start of the mixing phase at 23 °C (73 °F).

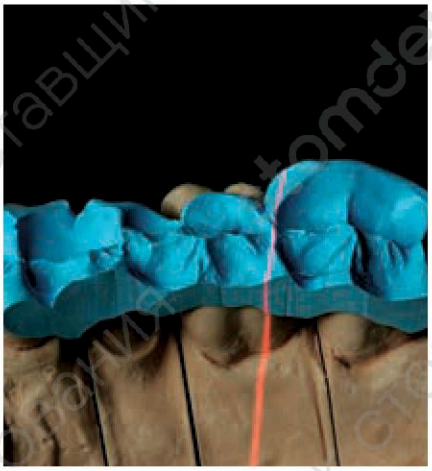
**Platinum 75 CAD - A-Silicone for bite registration**

| Code | Packaging |
|---|---|
| C400741 | 800 g (475 ml) Base + 800 g (475 ml) Catalyst |


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Developed for use in the dental practice, but also excellent for laboratory use, **Occlufast CAD** is an addition silicone for bite registration, scannable without using reflective sprays.

The short working time allows the laboratory work to be optimised.



Occlufast CAD

## Characteristics

- Accurate reproduction of details
- High hardness: 95 Shore A
- Mixing ratio 1:1
- Setting time 60 seconds*

## Advantages

- Short setting time
- Scannable without using reflective sprays
- Easy to finish, including with a bur






Occlufast CAD scan

| Mixing ratio Base: Catalyst | Working time** (min:s) | Setting time** (min:s) | Detail reproduction (µm) | Linear dimensional change (after 24 h) | Hardness (Shore A) |
|---|---|---|---|---|---|
| 1:1 | 0:30 | 0:60 | 20 | 0.05 % | 95 |

**The times mentioned must be intended at 35 °C - 95 °F.



**Occlufast CAD - A-Silicone for bite registration**

| Code | Packaging |
|---|---|
| C200800 | 2 x 50 ml cartridges (Base + Catalyst) + 12 green mixing tips |

*Setting time could be longer depending on environmental conditions.



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**Elite Master** and **Elite Rock** are type 4 stones to make scannable master models without using reflective sprays.


Elite Master

**Elite Master** is reinforced with resin particles, making the material easy to work and resistant to chipping.
**Elite Rock** is an extra hard stone with high compressive strength, recommended for making master models for fixed prostheses.
Elite Master is scannable in all colours, Elite Rock only in Silver Grey.

## Characteristics

Elite Master:
- Scannable without using reflective sprays
- Formaldehyde free
- Resistant to chipping

Elite Rock:
- Also available in fast version to optimise working time
- Low expansion, even after 48 hours
- Accurate reproduction of details


Elite Master scan

## Advantages

- Time savings in data acquisition with optical scanners
- Greater precision compared to use of reflective sprays
- Cleaner environment




| Product | Water/powder ratio | Mixing time (manual) (min:s) | Mixing time (vacuum) (min:s) | Working time (min:s) | Setting time (VICAT) (min:s) | Removal time (min:s) | Setting expansion 2 h | Setting expansion 48 h | Compressive strength 1 h | Compressive strength 48 h |
|---|---|---|---|---|---|---|---|---|---|---|
| **Elite Master** | 21 ml / 100 g | 0:60 | 0:30 | 12:00 | 14:00 | 45:00 | 0.08 % | 0.19 % | 50 MPa (510 kg / cm²) | 75 MPa (756 kg / cm²) |
| **Elite Rock** | 20 ml / 100 g | 0:60 | 0:30 | 12:00 | 14:00 | 45:00 | 0.08 % | 0.19 % | 52 MPa (530 kg / cm²) | 81 MPa (826 kg / cm²) |
| **Elite Rock Fast** | 20 ml / 100 g | 0:60 | 0:30 | 5:00 | 9:00 | 25:00 | 0.08 % | 0.19 % | 52 MPa (530 kg / cm²) | 81 MPa (826 kg / cm²) |

More details on page 22


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**Gingifast CAD** is a scannable fluid addition silicone, suitable for reproducing gingival morphology on models.

The elastic version with high tear resistance is recommended in the presence of undercuts or very thin thicknesses.
The rigid version is ideal for implant prosthesis applications.


Gingifast CAD Elastic and Rigid

## Characteristic

- Two hardness versions: Elastic 40 Shore A, Rigid 70 Shore A
- Rapid working times
- Mixing ratio 1:1

## Advantages

- Time savings in data acquisition with CAD/CAM
- Greater precision compared to use of reflective sprays
- Compatible with both direct and indirect techniques
- Reduction of waste, thanks to the smaller tips


Gingifast CAD Elastic scan




| Product | Mixing ratio | Working time* (min:s) | Setting time* (min:s) | Hardness (Shore A) |
|---|---|---|---|---|
| **Gingifast Elastic** | 1:1 | 2:00 | 10:00 | 40 |
| **Gingifats Rigid** | 1:1 | 2:00 | 10:00 | 70 |

*The times mentioned above are intended from the start of the mixing phase at 23 °C (73 °F).

## Gingifast CAD - A-Silicones for gingival reproduction



| Code | Product | Packaging |
|---|---|---|
| C203227 | Gingifast CAD Elastic | 2 x 50 cartridges + 12 blue mixing tips + 10 ml bottle Separator |
| C203232 | Gingifast CAD Rigid | 2 x 50 cartridges + 12 blue mixing tips + 10 ml bottle Separator |


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# Model preparation

An accurate model is the basis of every well-made prosthesis. Possible errors during this phase have repercussions on subsequent phases and are extremely difficult to eliminate.

Sensitive to the needs of lab technicians, Zhermack has designed a system of laboratory and impression materials able to work in synergy to obtain accurate models.

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Model preparation

# Stone models

The choice of material to develop the model contributes to the success of the prosthesis.
The types 3 and 4 stones in the Elite range are formulated, developed and produced in-house by Zhermack which controls the various phases of the production process to offer high quality constant standards.
Available in a wide range of colours and different packs, Zhermack stones can meet the main diverse needs of the laboratory.

They are compatible with the most commonly used impression materials present on the market (including polyethers and hydrocolloids) and are formulated to deliver the best performance when used in combination with Zhermack materials.


**MASTER MODEL AND BASES**

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**ORTHODONTIC MODEL**

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## Dental stones classification

The international regulation 6873:2013 classifies dental stones in different types, based on their linear setting expansion and compressive strength.
Higher type does not always mean higher quality for a stone. Type 5 stones, for example, are characterized by a high compressive strength but have also a high expansion, thus they are suitable for specific applications only.
Type 3 and 4 stones are instead the best for the dental use, because characterized by high compressive strength and low expansion that allow a higher dimensional stability over time and therefore precision in the reproduction of detail.

| Type | Linear setting expansion % | | | | Compressive strength MPa | |
|---|---|---|---|---|---|---|
| | 2 h | | 24 h | | 1 h | |
| | min. | max. | min. | max. | min. | max. |
| 1 | 0.00 | 0.15 | - | - | 4.0 | 8.0 |
| 2 (Class 1)* | 0.00 | 0.05 | - | - | 9.0 | - |
| 2 (Class 2)** | 0.06 | 0.30 | - | - | 9.0 | - |
| 3 | 0.00 | 0.20 | - | - | 20.0 | - |
| 4 | 0.00 | 0.15 | 0.00 | 0.18 | 35.0 | - |
| 5 | 0.16 | 0.30 | - | - | 35.0 | - |

*dental plaster for mounting
**dental plaster for models

## Zhermack dental stones

TYPE 4

**Master model**

- **Fixed prosthesis**
  - **Model**
    - **Elite Master. Resin reinforced.** High elasticity and splintering resistance for optimal bevelling.
    - **Elite Rock. Extra hard.** Reduced abrasion and higher precision of model.
  - **Base** — **Elite Base. Optimal fluidity.** Fluidity and perfect casting without vibration.
- **Removable prosthesis** — **Elite Stone. Thermal shock resistant.** Improved compressive strength and resistance to thermal shock.





TYPE 3

- **Antagonist** — **Elite Model. Superior type 3.** Extreme versatility due to its superior characteristics.
- **Articulator** — **Elite Arti. Thixotropic.** Thixotropic to simplify the positioning of the articulator.
- **Orthodontic** — **Elite Ortho. Glossy white.** Glossy white after polishing. Optimal compressive strength.






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**A stone for every application**

## For fixed prostheses

**Stone for bases | Elite Base**
- Optimised to be used in combination with master model → same expansion (type 4)
- Easy to cast → fluid

**Stone for master model | Elite Rock or Elite Master**
- Accurate reproduction of details → low expansion
- Chamfering without splintering → resin particles
- Hard stone → compressive strength

**Stone for antagonist | Elite Model**
- Cheaper than master model → type 3
- Hard stone → compressive strength

**Stone for articulator | Elite Arti**
- Maintain correct occlusion → low expansion
- Simplifying positioning in the articulator → thixotropic
- Perfect fixing with antagonist → adhesion



## For removable prostheses

**Stone for articulator | Elite Arti**
- Maintain correct occlusion → low expansion
- Simplify positioning in the articulator → thixotropic
- Perfect fixing with antagonist → adhesion

**Stone for master model | Elite Stone**
- To be used at high temperature → resistant to thermal shocks
- To be used with frameworks → wear resistance





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Type 4 stones have high compressive strength and low expansion, ideal for making master models.
Each stone developed by Zhermack has specific technical characteristics for each individual application.

**Elite Master** is the stone for master models in fixed prosthesis applications with resin particles, for chamfering without splintering.
**Elite Rock** is an extra hard stone for master models in fixed prosthesis applications.
**Elite Base** has excellent fluidity for preparation of bases, including without vibrator.
**Elite Stone** is a stone specifically conceived for master models in removable prostheses, resistant to thermal shock and abrasion from frameworks.

Thanks to its special formula optimised for reading with CAD/CAM systems, models made with Elite Master (in all colours) and Elite Rock (Silver Grey) are scannable without using reflective sprays.


Elite Master


Elite Rock

## Characteristics

- Low expansion, even after 48 hours
- Accurate reproduction of detail
- "Fast" version to save time (Elite Rock)

Elite Master:
- Formaldehyde free
- Resistant to chipping

## Advantages

- Elite Master: chamfering without splintering, thanks to the high resistance given by the resin particles incorporated in the stone
- Thixotropic to simplify fabrication of the model
- Elite Base: high fluidity, even without vibration


Elite Base


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| MASTER MODEL | |
|---|---|
| FIXED PROSTHESIS | REMOVABLE PROSTHESIS |
| MODEL | |
| **Elite Master**<br>**Resin reinforced**<br>Chipping resistance for optimal chamfering<br>**Elite Rock**<br>**Extra hard**<br>Improved compressive strenght and higher precision of model | **Elite Stone**<br>**Thermal shock resistant**<br>Reduced abrasion and resistance to thermal shock |
| BASE | |
| **Elite Base**<br>**Optimal Fluidity**<br>Fluidity and perfect preparation without vibration | |

| | Elite Master | Elite Rock | Elite Rock Fast | Elite Base | Elite Stone |
|---|---|---|---|---|---|
| **Scannable** | All | Silver Grey | Silver Grey | - | - |
| **Application** | Master model (fixed, dies) | Master model (fixed) | Master model (fixed) | Bases for model | Master model (removable) |
| **Color** | Desert Sand, Sandy Brown, Soft Grey | Sandy Brown, Cream, White, Light Amber, Silver Grey | Sandy Brown, Cream, Silver Grey | Terracotta Red, Royal Blue, Grey | Aqua Green, Pink, Navy Blue, Brown |
| **Type** | 4 | 4 | 4 | 4 | 4 |
| **Main feature** | Resin reinforced | Extra hard | Extra hard | Optimal fluidity | Thermal shock resistant |
| **Water / Powder** | 21 ml / 100 g | 20 ml / 100 g | 20 ml / 100 g | 23 ml / 100 g | 25 ml / 100 g |
| **Mixing time (m)*** | 0:60 | 0:60 | 0:60 | 0:60 | 0:60 |
| **Mixing time (v)**** | 0:30 | 0:30 | 0:30 | 0:30 | 0:30 |
| **Working time** | 12:00 | 12:00 | 5:00 | 5:00 | 8:00 |
| **Setting time***** | 14:00 | 14:00 | 9:00 | 18:00 | 14:00 |
| **Removal time** | 45:00 | 45:00 | 25:00 | 45:00 | 45:00 |
| **Expansion after 2 h** | 0.08 % | 0.08 % | 0.08 % | 0.05 % | 0.08 % |
| **Expansion after 48 h** | 0.19 % | 0.19 % | 0.19 % | 0.10 % | 0.09 % |
| **Compressive strength 1 h** | 50 MPa (510 kg / cm²) | 52 MPa (530 kg / cm²) | 52 MPa (530 kg / cm²) | 40 MPa (408 kg / cm²) | 42 MPa (428 kg / cm²) |
| **Compressive strength 48 h** | 75 MPa (765 kg / cm²) | 81 MPa (826 kg / cm²) | 81 MPa (826 kg / cm²) | 83 MPa (846 kg / cm²) | 60 MPa (612 kg / cm²) |

* manual | ** vacuum, 240 rpm | *** Vicat



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**Elite Model** is a high quality type 3 stone indicated for making antagonists and filling flasks in removable prosthesis applications with heat-curing resins.


Elite Model

## Characteristics

- Low expansion
- High mechanical characteristics
- Universal use

## Advantages

- Model fabrication facilitated by the high thixotropy
- Extreme versatility due to its superior characteristics compared to other stones of the same type


Elite Model Fast

| | Elite Model | Elite Model Fast |
|---|---|---|
| **Application** | Antagonist | Antagonist |
| **Color** | Ivory, Steel Blue, White | Light Cream, Sky Blue, White |
| **Type** | 3 | 3 |
| **Main feature** | Thixotropic | Thixotropic |
| **Water / Powder** | 30 ml / 100 g | 30 ml / 100 g |
| **Mixing time (m)*** | 0:60 | 0:60 |
| **Mixing time (v)**** | 0:30 | 0:30 |
| **Working time** | 7:00 | 4:00 |
| **Setting time***** | 12:00 | 8:00 |
| **Removal time** | 45:00 | 15:00 |
| **Expansion after 2 h** | 0.04 % | 0.10 % |
| **Expansion after 48 h** | 0.07 % | 0.10 % |
| **Compressive strength 1 h** | 31 MPa (316 kg / cm²) | 36 MPa (366 kg / cm²) |
| **Compressive strength 48 h** | 62 MPa (632 kg / cm²) | 65 MPa (662 kg / cm²) |

* manual | ** vacuum, 240 rpm | *** Vicat


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# Elite Arti | Elite Arti Fast

Types 3 stones for articulators



**Elite Arti** is a type 3 stone with low expansion to keep the occlusion unaltered in the articulator.



Elite Arti

## Characteristics

- Thixotropic
- Minimal expansion
- Also available in fast version
- White colour

## Advantages

- Minimal expansion to keep the occlusion unaltered
- Thixotropic to simplify positioning in the articulator

| | Elite Arti | Elite Arti Fast |
|---|---|---|
| **Application** | Mounting model for articulator | Mounting model for articulator |
| **Color** | White | White |
| **Type** | 3 | 3 |
| **Main feature** | Thixotropic | Thixotropic |
| **Water / Powder** | 30 ml / 100 g | 30 ml / 100 g |
| **Mixing time (m)*** | 0:60 | 0:45 |
| **Working time** | 5:00 | 2:00 |
| **Setting time**** | 5:00 | 3:00 |
| **Expansion after 2 h** | 0.02 % | 0.02 % |
| **Expansion after 48 h** | 0.06 % | 0.06 % |
| **Compressive strength 1 h** | 26 MPa (265 kg / cm²) | 26 MPa (265 kg / cm²) |
| **Compressive strength 48 h** | 59 MPa (602 kg / cm²) | 59 MPa (602 kg / cm²) |

* manual | ** Vicat



Elite Arti



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# Elite Ortho

Type 3 stone for orthodontic models

**Elite Ortho** is a specific stone for orthodontic models, glossy white.

## Characteristics

- Glossy white
- Thixotropic
- Low expansion

## Advantages

- Specific for orthodontic models
- Adapt for study models



Elite Ortho



Elite Ortho

| | Elite Ortho |
|---|---|
| Application | Orthodontic model |
| Color | White |
| Type | 3 |
| Main feature | Glossy white |
| Water / Powder | 24 ml / 100 g |
| Mixing time (m)* | 0:60 |
| Mixing time (v)** | 0:30 |
| Working time | 7:00 |
| Setting time*** | 14:00 |
| Removal time | 45:00 |
| Expansion after 2 h | 0.04 % |
| Expansion after 48 h | 0.05 % |
| Compressive strength 1 h | 32 MPa (326 kg / cm²) |
| Compressive strength 48 h | 60 MPa (612 kg / cm²) |

* manual | ** vacuum, 240 rpm | *** Vicat



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# Elite Dental Stones

Codes

**Model preparation** / Stone models




| | 200 g | 1 kg | 3 kg | 25 kg carton | 25 kg drum |
|---|---|---|---|---|---|
| **Elite Master** | | | | | |
| Desert Sand | C410400 | C410401 | C410402 | C410403 | C410404 |
| Sandy Brown | - | - | C410410 | C410411 | C410412 |
| Soft Grey | - | - | C410406 | - | - |
| **Elite Rock** | | | | | |
| Sandy Brown | C410033 | C410032 | C410030 | C410200 | C410334 |
| Cream | - | - | C410020 | C410201 | C410332 |
| Silver Grey | - | - | C410010 | C410202 | C410330 |
| Light Amber | - | - | C410035 | - | C410335 |
| White | - | - | C410000 | C410204 | C410336 |
| **Elite Rock Fast** | | | | | |
| Sandy Brown | C410152 | C410151 | C410150 | C410205 | C410337 |
| Cream | - | - | C410160 | C410207 | C410339 |
| Silver Grey | - | - | C410155 | C410206 | C410338 |
| **Elite Base** | | | | | |
| Terracotta Red | - | - | C410448 | C410446 | C410447 |
| Royal Blue | - | - | C410437 | C410435 | C410436 |
| Grey | - | - | C410440 | - | C410439 |
| **Elite Stone** | | | | | |
| Pink | - | - | C410048 | C410214 | C410315 |
| Navy Blue | - | - | C410050 | - | C410310 |
| Brown | - | - | C410040 | C410211 | C410312 |
| Aqua Green | - | - | C410043 | - | C410313 |
| **Elite Model** | | | | | |
| Steel Blue | - | C410071 | C410070 | C410221 | C410302 |
| Ivory | - | C410081 | C410080 | C410220 | C410304 |
| White | - | - | C410060 | C410222 | C410300 |
| **Elite Model Fast** | | | | | |
| Sky Blue | - | - | C410065 | C410224 | C410306 |
| Light Cream | C410069 | - | C410067 | C410226 | C410308 |
| White | - | C410064 | C410063 | C410228 | C410309 |
| **Elite Arti** | | | | | |
| White | - | - | C410100 | C410240 | C410350 |
| **Elite Arti Fast** | | | | | |
| White | C410107 | - | C410105 | C410241 | C410351 |
| **Elite Ortho** | | | | | |
| White | C410092 | C410091 | C410090 | C410230 | C410320 |



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Cod. C300992



Rubber mixing bowl

Cod. C300991



Green spatula (x1)

Cod. XR0250840



Water bottle with graduated measuring cup

Cod. C400441



Gypstray container 3 l

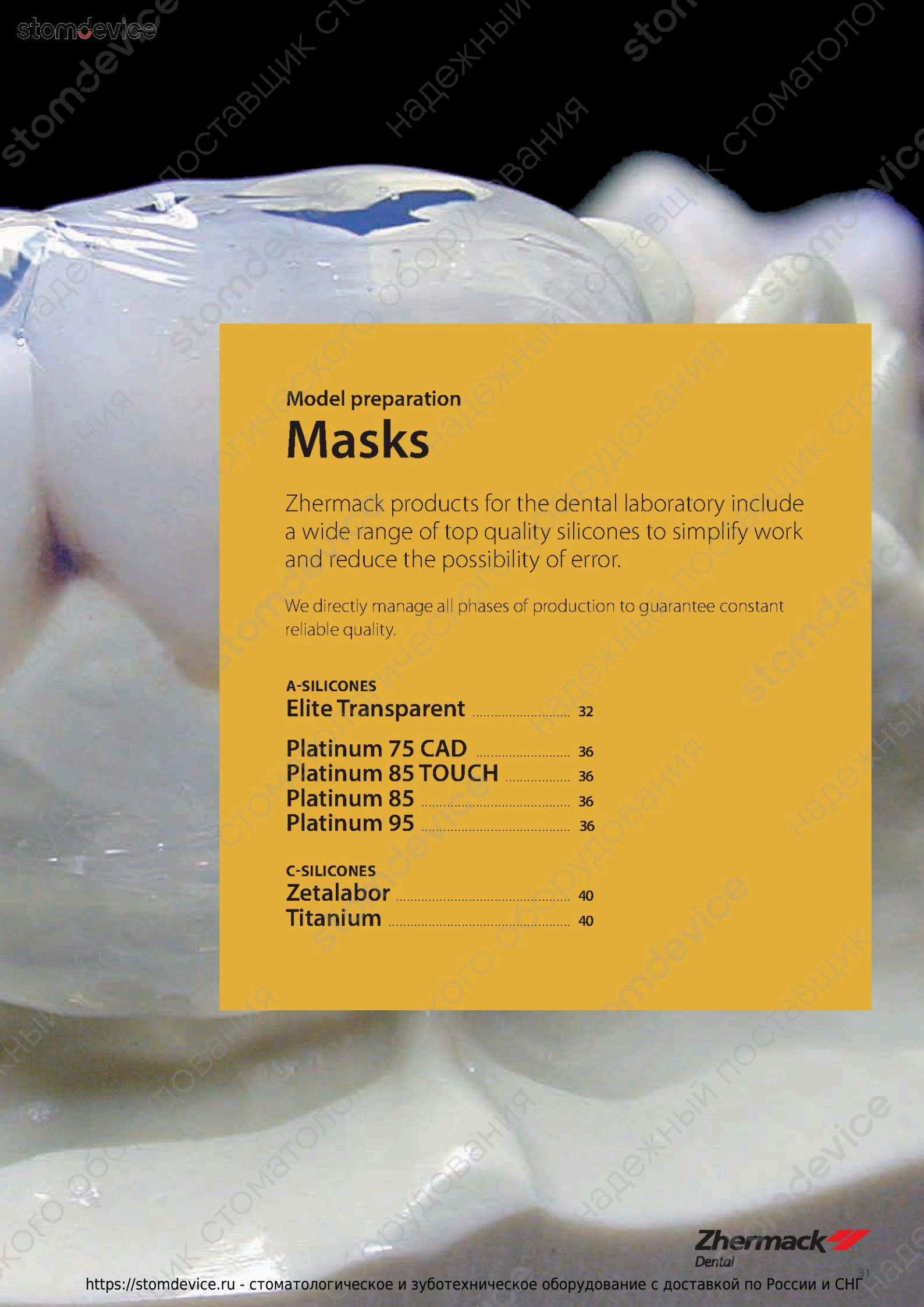


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Model preparation

# Masks

Zhermack products for the dental laboratory include a wide range of top quality silicones to simplify work and reduce the possibility of error.

We directly manage all phases of production to guarantee constant reliable quality.


**A-SILICONES**

**Elite Transparent** ..... 32

**Platinum 75 CAD** ..... 36
**Platinum 85 TOUCH** ..... 36
**Platinum 85** ..... 36
**Platinum 95** ..... 36

**C-SILICONES**

**Zetalabor** ..... 40
**Titanium** ..... 40


Zhermack Dental



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**Elite Transparent** is a transparent fluid two-component addition silicone.

Formulated for making transparent silicone masks in the laboratory for composites and light-curing resins.



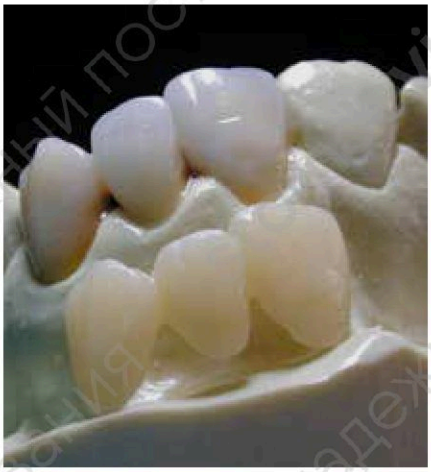
Elite Transparent

## Characteristics

- Highly transparent
- Low viscosity
- High final hardness 72 Shore A

## Advantages

- Shorter working times
- Composites or resins act on more compact surfaces without dispersion layer, thanks to the light curing in an oxygen free atmosphere
- Easy and quick to apply
- Possibility to retain the mask for future use



Elite Transparent result




| Working time* (min:s) | Setting time* (min:s) | Linear dimensional change (after 24 h) | Hardness (Shore A after 1 h) | Tensile strength | Tear strength |
|---|---|---|---|---|---|
| 1:30 | 15:00 | 0.18 % | 72 | 6.5 N/mm² | 4 N/mm |

*The times mentioned above are intended from the start of the mixing phase at 23 °C (73 °F).



**Elite Transparent - A-Silicone for masks**

| Code | Packaging |
|---|---|
| C401600 | 1 x 50 ml cartridge + 6 yellow mixing tips |


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## Addition silicones

- Excellent dimensional stability
- Resistant to heat up to 200°C
- Excellent surface definition



**Platinum 75 CAD**
**Platinum 85 TOUCH**
**Platinum 85**
**Platinum 95**

Indicated for lengthy processes (e.g. work on implants with diagnostic wax-up), processes requiring high definition and detail reproduction (e.g. veneers), use with thermoplastic materials with a high curing temperature, heat-cured resins and self-curing resins.

## Condensation silicones

- Lower dimensional stability
- Resistant to heat up to 100°C
- Lower surface quality




**Zetalabor (85 Shore A)**
**Titanium (95 Shore A)**

Indicated for short processes and use with heat-curing and self-curing resins.


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## Examples of application

**Removable prosthesis**
with self-curing resin



**Removable prosthesis**
prosthesis repair



**Removable prosthesis**
complete denture with
hot curing resin



**Removable prosthesis**
complete denture with
self-curing resin



**Fixed prosthesis**
silicone masks for composite
temporary crown



**Fixed prosthesis**
artificial gum with
indirect technique





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**Platinum** is a high precision addition silicone available in 95, 85, 85 TOUCH or 75 CAD versions. All silicones in the line are characterised by excellent dimensional stability, short working times and ease of use.

Zhermack offers a complete system of putty silicones with different hardnesses, delivering high performance in numerous applications, including dental aesthetics. To satisfy the various needs of daily practice, Platinum 75 CAD silicone is designed for scanning with CAD/CAM systems and is ideal in combination with Platinum 95 for excellent reproduction of details. Recommended to make masks and counter-moulds.



Platinum 85

## Characteristics

- Availability in a wide range of hardnesses
- Accurate reproduction of details
- Resistant to heat up to 200°C
- Mixing ratio 1:1



Platinum 85 TOUCH

## Advantages

- Can be used for long processes (for example, implants with diagnostic wax-up) without altering the dimensional references
- Can be used with thermoplastic materials, thanks to heat resistance of up to 200°C
- Easy to work, including with a bur



Platinum 95


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| Product | Counter-mould for removable prosthesis in thermoplastic materials | Counter-mould for removable prosthesis in heat-curing resins | Masks for prosthesis in self-curing resins | Use with verticulator | Masks for gingival reproduction in indirect technique | Masks for composite and polyglass composite provisional | Removable prosthesis repair | Occlusal key on articulator |
|---|---|---|---|---|---|---|---|---|
| Platinum 75 CAD* | | | | | ○ | ○ | | ● |
| Platinum 85 TOUCH | | ○ | ○ | | ○ | ● | ○ | |
| Platinum 85 | ● | ● | ● | ● | ● | ○ | ○ | ○ |
| Platinum 95 | ○ | ○ | | ● | | ○ | ○ | ● |

● highly recommended ○ recommended

*scannable without using reflective sprays

| Product | Mixing time (min:s) | Working time* (min:s) | Setting time* (min:s) | Detail reproduction (µm) | Elastic recovery | Strain in compression | Linear dimensional change (after 24 h) | Hardness (Shore A after 24 h) | Heat resistance |
|---|---|---|---|---|---|---|---|---|---|
| Platinum 75 CAD | 0:30 | 1:00 | 7:00 | 20 | > 99.5 % | < 1 % | 0.05 % | 75 | 200 °C |
| Platinum 85 TOUCH | 0:30 | 1:00 | 7:00 | 20 | > 99.5 % | < 1% | 0.05 % | 85 | 200 °C |
| Platinum 85 | 0:30 | 2:00 | 8:00 | 20 | > 99.5 % | < 1 % | 0.05 % | 85 | 200 °C |
| Platinum 95 | 0:30 | 2:00 | 8:00 | 20 | > 99.5 % | < 1 % | 0.05 % | 95 | 200 °C |

*The times mentioned above are intended from the start of the mixing phase at 23°C (73°F).



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### Platinum 75 CAD - Scannable A-Silicone

| Code | Packaging |
|---|---|
| C400741 | 1 tub 800 g Base + 1 tub 800 g Catalyst |

### Platinum 85 TOUCH - High precision A-Silicone

| Code | Packaging |
|---|---|
| C400750 | 1 tub 4.3 kg Base + 1 tub 4.3 kg Catalyst |
| C400751 | 1 tub 200 g Base + 1 tub 200 g Catalyst |

### Platinum 85 - High precision A-Silicone

| Code | Packaging |
|---|---|
| C400727 | 1 tub 450 g Base + 1 tub 450 g Catalyst |
| C400725 | 1 tub 1 kg Base + 1 tub 1 kg Catalyst |
| C400723 | 1 tub 5 kg Base + 1 tub 5 kg Catalyst |

### Platinum 95 - High precision A-Silicone

| Code | Packaging |
|---|---|
| C400720 | 1 tub 450 g Base + 1 tub 450 g Catalyst |
| C400700 | 1 tub 1 kg Base + 1 tub 1 kg Catalyst |
| C400710 | 1 tub 5 kg Base + 1 tub 5 kg Catalyst |


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Designed for the dental laboratory, **Zetalabor** and **Titanium** condensation silicones are characterised by high hardness and good mechanical properties.

They can be used in various applications requiring short times and not excessively high working temperatures. Zetalabor and Titanium are recommended for counter-moulds in removable prosthesis applications, masks for creating artificial gums using the indirect technique, moulds for preparation self-curing resins and numerous other applications. For more than 35 years, their ease of use has helped speed up laboratory procedures and improve the everyday performance of lab technicians.

**Indurent Gel** is the gel catalyst completing the range. Its characteristic red colour makes it easy to recognise when the mixture is homogeneous. Easy to measure, it can be used with all Zhermack condensation silicones.



Zetalabor

## Characteristics

- Resistant to heat up to 100°C
- Good precision
- Silicones to mix with the gel catalyst only



Zetalabor

## Advantages

- Time saving
- Excellent quality/price ratio
- For use with hot and cold resin techniques



Zetalabor


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| Product | Counter-mould for removable prosthesis in heat-curing resins | Masks for prosthesis in self-curing resins | Masks for gingival reproduction in indirect technique | Masks for composite and polyglass composite provisional | Removable prosthesis repair | Occlusal key for mounting on articulator |
|---|---|---|---|---|---|---|
| Zetalabor | ● | ● | ● | ○ | ● | |
| Titanium | ● | ○ | | | ○ | ○ |

● highly recommended ○ recommended

| Product | Mixing time (min:s) | Working time* (min:s) | Setting time* (min:s) | Detail reproduction (µm) | Elastic recovery | Strain in compression | Linear dimensional change (after 24 h) | Hardness (Shore A after 24 h) |
|---|---|---|---|---|---|---|---|---|
| Zetalabor | 0:30 | 2:00 | 6:00 | 20 | 99 % | < 1 % | 0.10 % | 80 |
| Titanium | 0:30 | 2:00 | 6:00 | 20 | 99 % | < 1 % | 0.10 % | 90 |

*The times mentioned above are intended from the start of the mixing phase at 23 °C (73 °F).



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### Zetalabor - C-Silicone rigid

| Code | Packaging |
|---|---|
| C400791 | 1 tub 900 g |
| C400790 | 1 tub 2.6 kg |
| C400811 | 1 tub 5 kg |
| C400804 | 1 tub 10 kg |
| C400812 | 1 tub 25 kg |
| C400798 | 1 tub 5 kg + 2 Indurent Gel 60 ml |

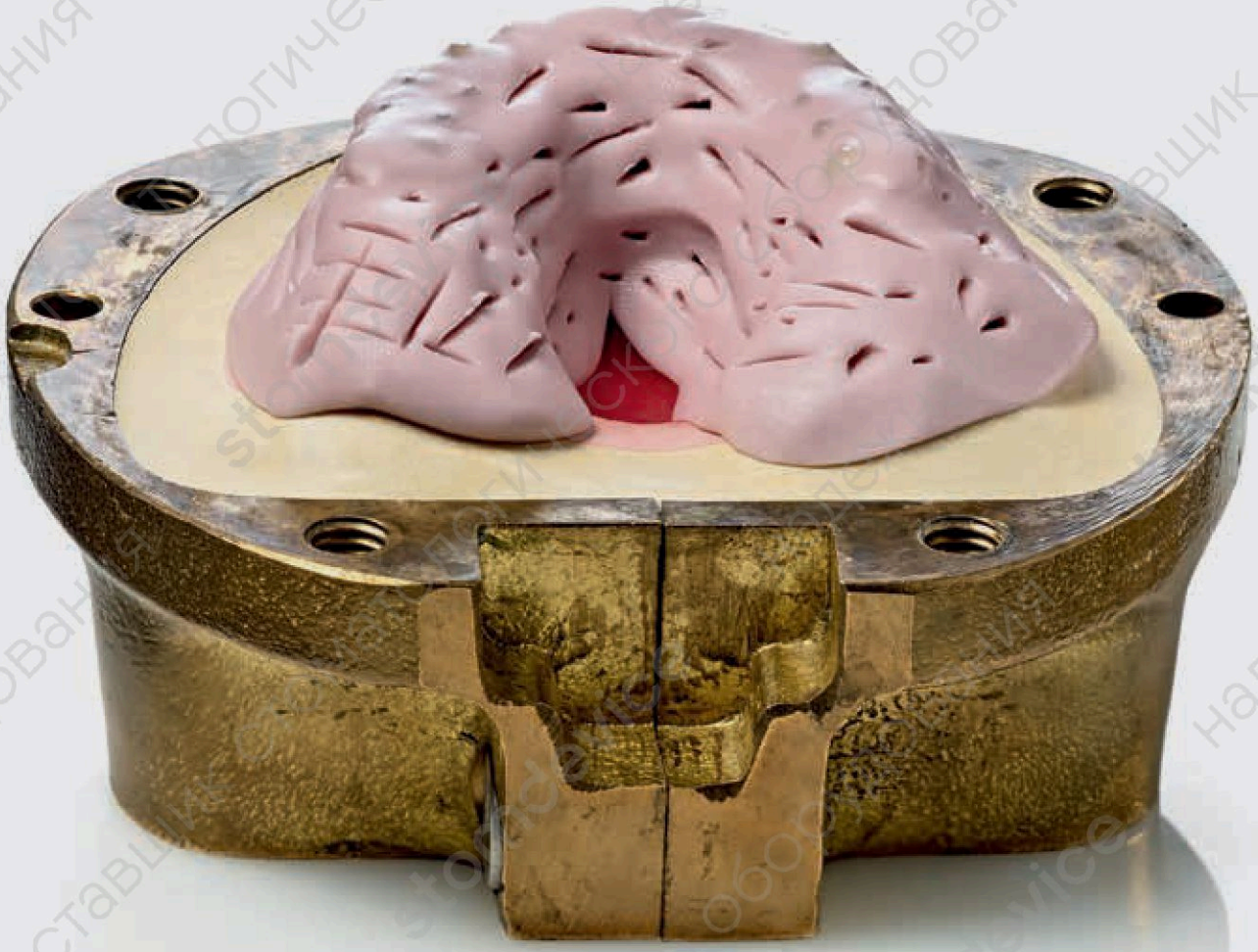
### Titanium - Lab putty C-Silicone extra-rigid

| Code | Packaging |
|---|---|
| C400605 | 1 tub da 2.6 kg |
| C400611 | 1 tub 5 kg |
| C400818 | 1 tub 5 kg + 2 Indurent Gel 60 ml |

### Indurent Gel - Gel catalyst for C-Silicones

| Code | Packaging |
|---|---|
| C100700 | 1 tub 60 ml |


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Model preparation

# Duplication

Interpreting the needs of lab technicians, Zhermack R&D laboratories have developed Elite Double, a wide range of duplication silicones characterised by accurate reproduction of details and excellent dimensional stability.
The high elasticity and high resistance to tearing make removal of the model from the silicone easy and safe.

For excellent results even in the most complex situations.

**A-SILICONES**

**Elite Double 8** ..... 46
**Elite Double 16 Fast** ..... 46
**Elite Double 16 Extra Fast** .. 46
**Elite Double 22** ..... 46
**Elite Double 22 Fast** ..... 46
**Elite Double 22 Extra Fast** .. 46
**Elite Double 32** ..... 46
**Elite Double 32 Fast** ..... 46

Zhermack Dental



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The **Elite Double** line includes a wide range of duplication silicones. Designed to meet the lab technician's different needs in both fixed and removable prosthesis applications. The range consists of 8 products.

Elite Double has different colours, four different final hardnesses and three setting times: normal, fast and extra fast, the latter formulated specifically for automatic mixers. Elite Double retains high and constant fluidity throughout the working time, delivering a homogeneous bubble-free result.



Elite Double 8

## Characteristics

- Resistance to stretching and tearing, including with thin thicknesses
- Accurate reproduction of detail
- High fluidity
- High dimensional stability over time
- High elastic recovery



Elite Double 22 Fast

## Advantages

- Optimisation of working times, particularly when compared with duplication with hydrocolloids (setting time 5:00, 10:00, 20:00)
- The model can be duplicated a number of times, thanks to the dimensional stability over time and high elastic recovery
- Compatible with stones, polyurethane resins, acrylic resins and phosphate and alcohol-based investments
- High fluidity: does not require mixing in a vacuum



Elite Double 22 Fast


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| Product | Duplication of cores, integral ceramic coating | Duplication of models, generally in gypsum and/or resin | Duplication of models, controlled expansion coating | Duplication of models, free expansion coating |
|---|---|---|---|---|
| Elite Double 8 | ● | | | |
| Elite Double 16 Fast | ● | ● | ● | |
| Elite Double 16 Extra Fast | ● | ● | ● | |
| Elite Double 22 | | ● | ● | |
| Elite Double 22 Fast | | ● | ● | |
| Elite Double 22 Extra Fast | | ● | ● | |
| Elite Double 32 | | ● | | ● |
| Elite Double 32 Fast | | ● | | ● |

| Product | Mixing ratio | Manual mixing time* (min:s) | Mechanical mixing time with vacuum mixer* (min:s) | Working time* (min:s) | Setting time* (min:s) | Detail reproduction (µm) | Elastic recovery | Linear dimensional change (after 24 h) | Hardness (Shore A) | Load at break | Elongation at break | Tear resistance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Elite Double 8 | 1:1 | 1:00 | 0:30 | 10:00 | 20:00 | 2 | 99.95 % | 0.05 % | 8 | 2 N/mm² | 380 % | 2.5 N/mm² |
| Elite Double 16 Fast | 1:1 | 1:00 | 0:30 | 5:00 | 10:00 | 2 | 99.95 % | 0.05 % | 16 | 2.5 N/mm² | 550 % | 5 N/mm² |
| Elite Double 16 Extra Fast | 1:1 | Automatic mixer | Automatic mixer | 1:30 | 5:00 | 2 | 99.95 % | 0.05 % | 16 | 2.5 N/mm² | 550 % | 5 N/mm² |
| Elite Double 22 | 1:1 | 1:00 | 0:30 | 10:00 | 20:00 | 2 | 99.95 % | 0.05 % | 22 | 2.5 N/mm² | 450 % | 5 N/mm² |
| Elite Double 22 Fast | 1:1 | 1:00 | 0:30 | 5:00 | 10:00 | 2 | 99.95 % | 0.05 % | 22 | 2.5 N/mm² | 450 % | 5 N/mm² |
| Elite Double 22 Extra Fast | 1:1 | Automatic mixer | Automatic mixer | 1:30 | 5:00 | 2 | 99.95 % | 0.05 % | 22 | 2.5 N/mm² | 450 % | 5 N/mm² |
| Elite Double 32 | 1:1 | 1:00 | 0:30 | 10:00 | 20:00 | 2 | 99.95 % | 0.05 % | 32 | 2.5 N/mm² | 350 % | 5 N/mm² |
| Elite Double 32 Fast | 1:1 | 1:00 | 0:30 | 5:00 | 10:00 | 2 | 99.95 % | 0.05 % | 32 | 2.5 N/mm² | 350 % | 5 N/mm² |

*The times mentioned above are intended from the start of the mixing phase at 23 °C (73 °F).



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### Elite Double 8 - A-Silicone for model duplication

| Code | Packaging |
|---|---|
| C400820 | 250 g (Base) + 250 g (Catalyst) |
| C400830 | 1 kg (Base) + 1 kg (Catalyst) |
| C400850 | 5 kg (Base) + 5 kg (Catalyst) |

### Elite Double 16 Fast - A-Silicone for model duplication

| Code | Packaging |
|---|---|
| C400825 | 250 g (Base) + 250 g (Catalyst) |
| C400831 | 1 kg (Base) + 1 kg (Catalyst) |
| C400847 | 5 kg (Base) + 5 kg (Catalyst) |

### Elite Double 16 Extra Fast - A-Silicone for model duplication

| Code | Packaging |
|---|---|
| C400848 | 5 kg (Base) + 5 kg (Catalyst) |

### Elite Double 22 - A-Silicone for model duplication

| Code | Packaging |
|---|---|
| C400821 | 250 g (Base) + 250 g (Catalyst) |
| C400832 | 1 kg (Base) + 1 kg (Catalyst) |
| C400840 | 5 kg (Base) + 5 kg (Catalyst) |


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### Elite Double 22 Fast - A-Silicone for model duplication

| Code | Packaging |
|---|---|
| C400823 | 250 g (Base) + 250 g (Catalyst) |
| C400834 | 1 kg (Base) + 1 kg (Catalyst) |
| C400842 | 5 kg (Base) + 5 kg (Catalyst) |

### Elite Double 22 Extra Fast - A-Silicone for model duplication

| Code | Packaging |
|---|---|
| C400838 | 1 kg (Base) + 1 kg (Catalyst) |
| C400849 | 5 kg (Base) + 5 kg (Catalyst) |

### Elite Double 32 - A-Silicone for model duplication

| Code | Packaging |
|---|---|
| C400833 | 1 kg (Base) + 1 kg (Catalyst) |
| C400841 | 5 kg (Base) + 5 kg (Catalyst) |

### Elite Double 32 Fast - A-Silicone for model duplication

| Code | Packaging |
|---|---|
| C400836 | 1 kg (Base) + 1 kg (Catalyst) |
| C400843 | 5 kg (Base) + 5 kg (Catalyst) |



Doublemix: automatic mixer for fluid duplication A-Silicones.
More information on page 86



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Cod. C207200



Spatula for silicones

Cod. C400530



Tensilab - alcohol based surface-active spray solution - 120 ml with spray bottle



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Model preparation

# Gingival reproduction

To reproduce artificial gengiva on a model, Zhermack offers top quality, precise polyvinylsiloxane products with long stability to facilitate work in the laboratory.

They retain their characteristics unaltered throughout all phases of the process, giving the lab technician more peace of mind.

**A-SILICONES**

**Gingifast Elastic** ..... 54
**Gingifast Rigid** ..... 54
**Gingifast CAD Elastic** ..... 54
**Gingifast CAD Rigid** ..... 54

Zhermack Dental



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**Gingifast** addition silicones are conceived to reproduce gingival morphology on models in fixed prosthesis and implant applications.
Zhermack proposes the most suitable gum mask for all types of application.

**Gingifast Elastic** guarantees excellent aesthetic results, thanks to its translucence and the presence of fibrils to give a natural effect. Particularly suitable in the presence of undercuts and thin thicknesses.
**Gingifast Rigid** is indicated for the direct technique. Thanks to its balanced hardness, it can be worked easily with burs and is the top product in the field of implant prosthetics.
**Gingifast CAD**, a scannable fluid silicone available in two versions, Rigid and Elastic, completes the range. Scannable and readable without requiring reflective sprays, it is conceived for maximum performance in acquiring 3D data, saving time, simplifying processes and improving quality.


Gingifast Rigid - direct technique

## Characteristics

- Various hardnesses: Elastic 40 Shore A, Rigid 70 Shore A
- Setting time: 10:00
- Mixing ratio 1:1


Gingifast Rigid

## Advantages

- Compatible with the various techniques used to make artificial gums (direct and indirect)
- Excellent aesthetic results
- With the Gingifast CAD formula, very small mixing tips can be used reducing silicone waste


Gingifast Elastic - indirect technique


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| Product | Recommended in the presence of undercuts | Recommended in the presence of implants |
|---|---|---|
| Gingifast Elastic | ● | ○ |
| Gingifast Rigid | ○ | ● |
| Gingifast CAD Elastic | ● | ● |
| Gingifast CAD Rigid | ○ | ● |

● highly recommended ○ recommended

| Product | Mixing ratio (Base:Catalyst) | Working time* (min:s) | Setting time* (min:s) | Hardness (Shore A) | Scannable without sprays | Workable with a bur |
|---|---|---|---|---|---|---|
| Gingifast Elastic | 1:1 | 2:00 | 10:00 | 40 | | |
| Gingifast Rigid | 1:1 | 2:00 | 10:00 | 70 | | ● |
| Gingifast CAD Elastic | 1:1 | 2:00 | 10:00 | 40 | ● | ● |
| Gingifast CAD Rigid | 1:1 | 2:00 | 10:00 | 70 | ● | ● |

*The times mentioned above are intended from the start of the mixing phase at 23 °C (73 °F).



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### Gingifast Elastic - A-Silicone for gingival reproduction

| Code | Packaging |
|---|---|
| C401500 | 2 x 50 ml cartridges + 1 Gingifast Separator bottle 10 ml + 12 yellow mixing tips + 12 yellow intraoral tips + 1 spray |

### Gingifast Rigid - A-Silicone for gingival reproduction

| Code | Packaging |
|---|---|
| C401520 | 2 x 50 ml cartridges + 1 Gingifast Separator bottle 10 ml + 12 yellow mixing tips + 12 yellow intraoral tips + 1 spray |

### Gingifast CAD Elastic - Scannable A-Silicone for gingival reproduction

| Code | Packaging |
|---|---|
| C203227 | 2 x 50 ml cartridges + 1 Gingifast Separator bottle 10 ml + 12 blue mixing tips |

### Gingifast CAD Rigid - Scannable A-Silicone for gingival reproduction

| Code | Packaging |
|---|---|
| C203232 | 2 x 50 ml cartridges + 1 Gingifast Separator bottle 10 ml + 12 blue mixing tips |


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Cod. C400888




Gingifast Separator 2 x 10 ml bottle

Cod. C202070



Yellow mixing tips (48 pcs)

Cod. C202090




Yellow intraoral tips (48 pcs)

Cod. C202100




Dispenser D2 - 1:1

Cod. C203233



Blue mixing tips (48 pcs)

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Model preparation

# Custom impression trays

Elite LC Tray is the line of light-curing resin plates for making custom impression trays and removable prosthesis bases.

Easy and quick to use, it meets the needs of the dental laboratory by optimising working times without compromising on quality.

**LIGHT-CURING RESINS**

**Elite LC Tray** ..... 60
**Elite LC Tray ROUND** ..... 60

Zhermack Dental



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**Elite LC Tray** is a line of light-curing resin plates for custom impression trays. Also indicated for making bases for mounting teeth and bite plates in removable prosthesis applications.

**Elite LC Tray** can be used to make bases and custom trays of various sizes to meet the main requirements in this application.
**Elite LC Tray ROUND** is particularly indicated for laboratories wanting medium-sized ergonomic plates.



Elite LC Tray

## Characteristics

- Cured with either halogen or UV light (3 - 5 minutes)
- Stable to daylight or artificial light for about 20:00
- Available in three colours: blue, white and pink
- Minimum shrinkage after curring



Elite LC Tray ROUND

## Advantages

- Easy to model, not sticky
- Quick, saves time with respect to traditional self-curing resins
- Uniform thickness



| Product | Setting time (min:s) | Thickness | Hardness (Shore D) | Curing |
|---|---|---|---|---|
| **Elite LC Tray** | 3:00 - 5:00 | 2.5 mm | 80 | UV light (350 - 400 nm)<br>Halogen light (420 - 480 nm) |
| **Elite LC Tray ROUND** | 3:00 - 5:00 | 2.5 mm | 80 | UV light (350 - 400 nm)<br>Halogen light (420 - 480 nm) |

**Elite LC Tray - Light curing resin for custom impression trays**

| Codes | Packaging |
|---|---|
| D500011 | Elite LC Tray White (50 pcs) |
| D500021 | Elite LC Tray Pink (50 pcs) |
| D500031 | Elite LC Tray Blue (50 pcs) |

**Elite LC Tray ROUND - Light curing resin for custom impression trays**

| Codes | Packaging |
|---|---|
| D500050 | Elite LC Tray ROUND White (50 pcs) |
| D500052 | Elite LC Tray ROUND Pink (50 pcs) |
| D500054 | Elite LC Tray ROUND Blue (50 pcs) |


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# Casting

Constant research for ever better products for the user and lengthy experience in prosthodontics have enabled Zhermack to develop a system of top quality products able to work in synergy to guarantee excellent results in all phases of the process to create metal prostheses.

Zhermack investments and sands simplify the lab technician's work, enabling top quality prostheses to be made easily, quickly and cheaply.

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Casting

# Investments

The Elite Vest line of investments is conceived to simplify the use of the investment in the laboratory and reduce stocks.

All the most common fixed and removable prosthesis applications can be covered with just two powders (one for fixed prostheses and one for frameworks) and a universal liquid.

**PHOSPHATE INVESTMENTS**

**Elite Vest Plus** ..... 66
**Elite Vest Cast** ..... 66
**Elite Vest Liquid** ..... 66

Zhermack Dental



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## Just two types of powder and one universal liquid allow casts to be made with all alloys* and pressable ceramics.

**Elite Vest Plus** is the universal precision investment for fixed prostheses, compatible with non precious alloys*, precious alloys and pressable ceramics.
**Elite Vest Cast** is a precision investment specific for frameworks, compatible with base alloys* and precious alloys.
**Elite Vest Liquid** is the universal mixing liquid for both investments.


Elite Vest Plus

### Characteristics

- Quick or traditional preheating
- Fine powder, carbon-free formulas with expansion adaptable to the working technique
- Excellent precision, particularly in implants and large bridges

### Advantages

- Easy to use and manage: just two products for all types of work
- Flexibility: expansion can be adapted to the different needs
- Work speed: smooth alloy surface after preparation


Elite Vest Plus - cast metal coping


Elite Vest Plus

* excluding titanium alloys


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| Product | Fixed prosthesis (crowns, inlays, onlays) | Fixed prosthesis (crowns and bridges, partial crowns, inlays, onlays, telescopic crowns) | | | | Frameworks (combined extended removable partial prosthesis in a single piece, combined extended removable partial prosthesis with clasps, normal removable partial prosthesis) |
|---|---|---|---|---|---|---|
| | Pressable ceramics | Au alloys with a high gold content | Au alloys with a low gold content | Palladium alloys | Base alloys | |
| Elite Vest Plus | ● | ● | ● | ● | ● | |
| Elite Vest Cast | | | | | | ● |
| Elite Vest Liquid | ● | ● | ● | ● | ● | ● |

| Technical features | Elite Vest Plus | Elite Vest Cast |
|---|---|---|
| Powder/liquid ratio (Elite Vest Liquid) | 100 g / 24 - 26 ml | 100 g / 18 - 20 ml |
| Manual mixing time (min:s) | 00:15 - 00:30 | 00:15 - 00:20 |
| Vacuum mixing time (320 rpm) (min:s) | 00:60 | 00:60 |
| Vacuum maintenance time after mixing (min:s) | 00:15 - 00:30 | 00:10 - 00:15 |
| Working time* (min:s) | 6:00 | 5:00 |
| Time in preheat oven (from start of mixing) (min:s) | 23:00 - 25:00 | 23:00 - 25:00 |
| Ideal liquid storage temperature | 18 - 22 °C (> 5 °C) | 18 - 22 °C (> 5 °C) |
| Preheat temperature | 850 - 900 °C | 900 - 930 °C |
| Maximum preheat temperature | 1200 °C | 1050 °C |

*Times indicated may vary according to room temperature.



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### Elite Vest Plus

| Code | Packaging |
|---|---|
| C420000 | 40 x 160 g bag |

### Elite Vest Cast

| Code | Packaging |
|---|---|
| C420002 | 30 x 400 g bag |

### Elite Vest Liquid

| Code | Packaging |
|---|---|
| C420010 | Bottle 1 L |


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Cod. XR0000150



Ring 1 x

Cod. XR0000152



Ring 3 x

Cod. XR0000154



Ring 6 x

Cod. XR0000156



Ring 9 x



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Casting

# Sands

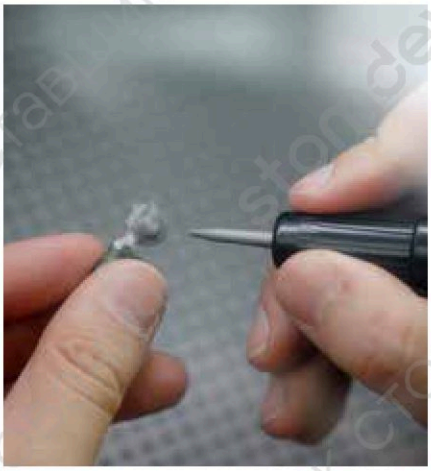
Zeta Sand is the Zhermack line of high quality sands. They are sieved a number of times to provide regular grain size and packed in 1 kg bags to minimise the effect of humidity and contamination. The range includes aluminium oxide and glass beads.

**Zeta Sand** ..... 72



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The **Zeta Sand** line includes aluminium oxide and glass beads, with a range of grain sizes suitable for various materials and different types of sandblasting and finishing.



Zeta Sand

## Characteristics

- High degree of sieving
- Single refill three-ply 1 kg aluminium pack
- Different grain sizes available

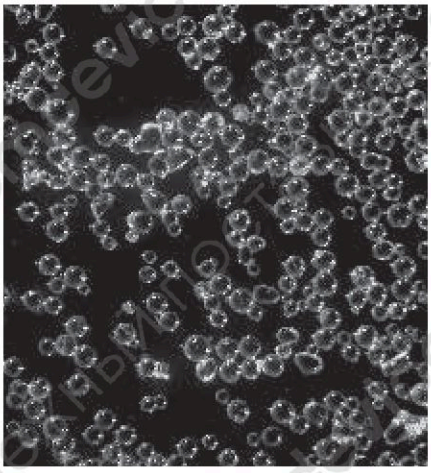
## Advantages

- The quality of the raw material is provided by a high degree of sieving
- The 1 kg pack protects the sands from humidity, the main cause of sandblaster malfunction
- The various grain sizes are suitable for various types of sandblasting and finishing






Zeta Sand - Aluminium oxide



Zeta Sand - Glass beads


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| | Oxide 50 | Oxide 90 - 125 | Oxide 150 - 250 | Glass beads 50 | Glass beads 110 |
|---|---|---|---|---|---|
| Devesting pressed porcelain / inlays | ● | | | | |
| Gentle oxide removal / Devesting precious alloys | ● | | | | |
| Removal of heavy oxide layers / Devesting non-precious alloys | | ● | ● | | |
| Surface treatment (porcelain / resins) | ● | ● | | | |
| Cement removal (precious / non-precious alloys) | ● | | | | |
| Surface treatment before the etching of full ceramic | ● | | | | |
| Welding preparation | | ● | | | |
| Removal of residue from dentures (gypsum / tooth tartar) | | | | ● | ● |
| Smoothing of occlusal surfaces, secondary components or crown interiors | | | | ● | |
| Satin finishing and smoothing of non-precious alloys | | | | | ● |

## Zeta Sand

| Code | Description | Packaging |
|---|---|---|
| C308202 | Aluminium oxide | 5 x 1 kg bag 50 µm |
| C308206 | Aluminium oxide | 5 x 1 kg bag 90 µm |
| C308208 | Aluminium oxide | 5 x 1 kg bag 110 µm |
| C308210 | Aluminium oxide | 5 x 1 kg bag 125 µm |
| C308216 | Aluminium oxide | 5 x 1 kg bag 250 µm |
| C308218 | Glass beads | 5 x 1 kg bag 40 / 70 µm |
| C308220 | Glass beads | 5 x 1 kg bag 90 / 150 µm |



California: modular micro sandblaster for smoothing, polishing and roughening sandblasting prosthetic elements.
More information on page 108



Sand S 24 R: dual-module sandblasting machine with recycling system for the sandblasting of dental prostheses.
More information on page 110



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# Hygiene

Cleaning and disinfecting impressions coming from the dental surgery are a safeguard against infections. Choosing effective products with a complete spectrum of action is therefore essential to protect the health of laboratory technicians.

Quick acting easy-to-use products, free from toxic substances such as phenols and aldehydes. Like the products in the Zeta Hygiene range, developed from Zhermack's experience in the cold disinfection and sterilisation of medical-surgical devices. Comprehensive solutions, regulated by strict production standards and controlled and tested according to the most recent European regulations for an adequate protection every time.

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Hygiene

# Hygiene lab applications

Solutions for impressions cleaning and disinfection and for the cleaning of alginate and stone residues on instruments.

DISINFECTANT FOR IMPRESSIONS
Zeta 7 Spray ..... 78
Zeta 7 Solution ..... 78

TRAYS AND INSTRUMENTS GYPSUM AND ALGINATE REMOVERS
Algitray ..... 79
Gypstray ..... 79

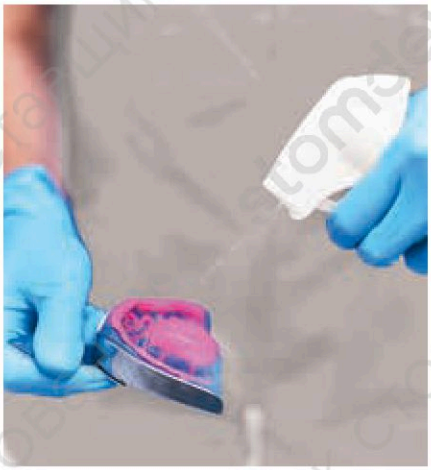
Zhermack Dental



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Zhermack offers excellent performance products for impression disinfection. A complete spectrum (bactericidal, fungicidal, tuberculocidal and virucidal) and excellent compatibility with different types of impression material. In full compliance with the latest European Norms on disinfection.

**Zeta 7 Spray** is a ready to use, disinfectant spray for a quick and easy disinfection of impressions.
**Zeta 7 Solution** is a full spectrum concentrated disinfectant.


Zeta 7 Spray

## Characteristics

- Complete spectrum of action developed and tested according to the latest European Norms on disinfection
- Compatibility with all impression materials (silicone, alginate, polyether and polysulphides)



Zeta 7 Solution

## Advantages

- **Efficacy:** complete protection for professionals in dental practices and laboratories
- **Excellent performance:** respects the dimensional stability of impressions characteristics and their compatibility with dental stones and improves accuracy in the reproduction of stone models

| Product | Type of product | Active ingredients | Dilution | Action time (min:s) | Distinctive characteristics | Spectrum of action |
|---|---|---|---|---|---|---|
| **Zeta 7 Spray** | Disinfectant | Alcohols | Ready to use | 3:00 | Improve smoothness of gypsum on impressions surfaces and reduce the formation of bubbles | **Bactericidal:** EN 13727 (S. aureus, P. aeruginosa, E. hirae) **Fungicidal:** EN 13624 (C. albicans) **Tuberculocidal:** EN 14348, EN 14563 (M. terrae) **Virucidal:** EN 14476 (tested on Poliovirus, Adenovirus, Norovirus. Parvovirus including HIV, HBV, HCV) |
| **Zeta 7 Solution** | Disinfectant | Quaternary Ammonium Salts, Phenoxyethanol | 1 % | 10:00 | Very concentrated, allows for the preparation of up to 100 litres of disinfectant solution | **Bactericidal:** EN 13727 (S. aureus, P. aeruginosa, E. hirae) **Fungicidal:** EN 13624 (C. albicans) **Tuberculocidal:** EN 14348, EN 14563 (M. terrae) **Virucidal:** EN 14476 (tested on Poliovirus, Adenovirus, Norovirus. Parvovirus including HIV, HBV, HCV) |



| Code | Product | Packaging |
|---|---|---|
| C810050 | Zeta 7 Spray | 750 ml bottle with foam cap |
| C810048 | Zeta 7 Solution | 1 litre bottle |


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**Algitray** and **Gypstray** are ideal for the cleaning and removal of alginates and gypsum residues from trays and instruments. They offer deep cleaning action even in less accessible areas, protecting materials and allowing a safe use in all cases.

**Algitray** is a specific neutral pH cleaner for the removal of alginate residues from all types of impression trays and other instruments.
**Gypstray** is a ready to use solution for the removal of gypsum residues from impression trays, spatulas or other instruments.



Algitray and Gypstray

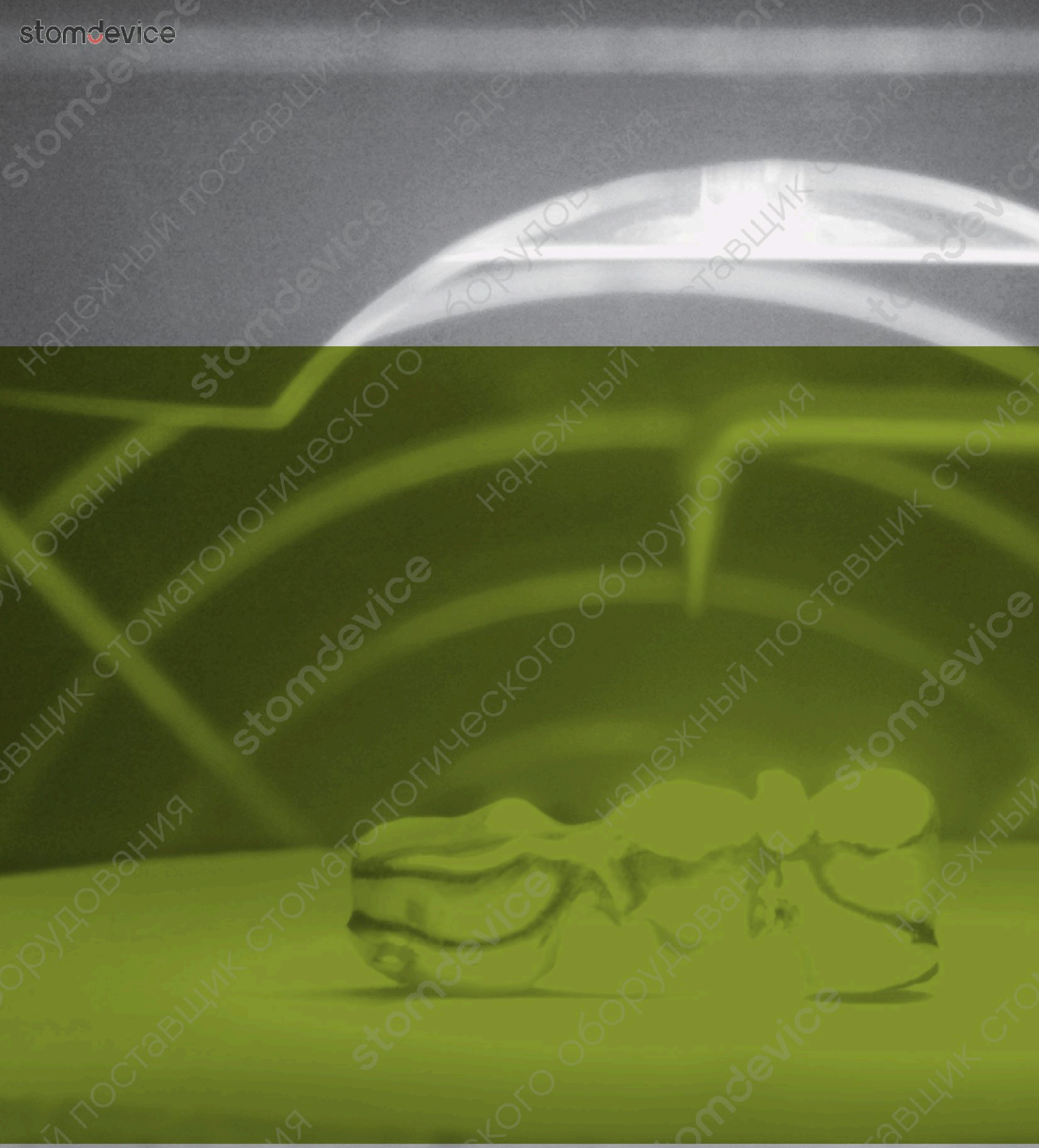
## Advantages

- **Efficacy:** helps eliminate all traces of alginate and gypsum even in less accessible areas
- **Protection of materials:** non-aggressive formula

| Product | Type of product | Active ingredients | Dilution |
|---|---|---|---|
| **Algitray** | Alginate remover | Alginate dissolvers | Solution powder: 10 % |
| **Gypstray** | Gypsum remover | Gypsum dissolvers | Ready to use |

| Code | Product | Packaging |
|---|---|---|
| C400430 | Algitray powder | 2 x 500 g tub (powder) + measuring cup |
| C400441 | Gypstray | 3 litres container |


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# Equipment

An integrated system for the dental laboratory, developed by Zhermack to simplify and improve everyday work.

Consumables (addition and condensation silicones, silicones for duplication, stones, investments...) and specific high quality, technologically advanced equipment for all the main phases in the production process with maximum functionality and competitive performance.



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Equipment

# Model preparation

Precision, quality, satisfaction. The ideal process leading from the model to the prosthesis. Together with Zhermack consumables, Zhermack equipment is suitable to achieve a precise and top quality model, to give the patient a high quality prosthesis.

Less time, more satisfaction. For the patient and for the dentist.

**VACUUM MIXER FOR STONES AND INVESTMENTS**
**Elite Mix** ..... 84

**AUTOMATIC MIXER FOR DUPLICATION A-SILICONES**
**Doublemix** ..... 86

**MODEL TRIMMER**
**SQM 25 N** ..... 88

Zhermack Dental



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**Elite Mix** is a vacuum stone and investment mixer for model preparation. Versatile and compact, it has a functional design.

The completely electronic control provides constant mixing quality and silent operation. The software installed allows to set different parameters so that you can customize the entire mixing cycle.



Elite Mix with bench stand

## Characteristics

- Ten different programs which can be set with the following parameters:
  - Spatula mixing time
  - Spatula mixing speed between 100 and 450 rpm
  - Pre-spatula mixing
  - Pre-insertion vacuum
  - Spatula rotation direction reversal interval
  - Vacuum level
- Electronic vacuum control and double filter
- Vacuum generated by membrane pump inside mixer
- Wall mounted or table top, with optional support



Elite Mix

## Advantages

- The "oil free" vacuum pump requires no maintenance
- The Elite Mix mixing bowls have rounded internal surfaces for easy removal of the mix and cleaning
- Ten customisable programmes, including six default programmes for Zhermack stones

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) | Speed (rpm) | Vacuum level (mmHg) |
|---|---|---|---|---|---|---|---|
| C305120 | Elite Mix 230 V 50 Hz | 180 x 240 x 360 | 8 | 230 V ± 10 % / 50 Hz | 150 | 100 - 450 | 600 |
| C305121 | Elite Mix 230 V 60 Hz | 180 x 240 x 360 | 8 | 230 V ± 10 % / 60 Hz | 150 | 100 - 450 | 600 |
| C305125 | Elite Mix 115 V 60 Hz | 180 x 240 x 360 | 8 | 115 V ± 10 % / 60 Hz | 150 | 100 - 450 | 600 |


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STANDARD COMPONENTS

| Code | Description |
|---|---|
| XR0011500 | Lid with 500 cc mixing spatula |

ACCESSORIES

| Code | Description |
|---|---|
| XR0011510 | Bench-mounted Elite Mix stand |
| XR0011520 | Lid with 200 cc mixing spatula |
| XR0011500 | Lid with 500 cc mixing spatula |
| XR0011530 | Lid with 1000 cc mixing spatula |
| XR0011642 | 200 cc bowl |
| XR0011640 | 500 cc bowl |
| XR0011644 | 1000 cc bowl |

Cod. XR0011510



Bench-mounted Elite Mix stand

Cod. XR0011520 + XR0011642



200 cc bowl

Cod. XR0011500 + XR0011640



500 cc bowl

Cod. XR0011530 + XR0011644



1000 cc bowl



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**Doublemix** mixer is designed to automatically dose and mix fluid addition silicones for model duplication in the laboratory.

Can be used to make single or series duplications rapidly and with great precision. Easy to use, delivers uniform bubble-free mixing with constant, quicker and more satisfying results. Fitted with a dosing pump with a mixing ratio of 1:1 and rotatable mixing tip to facilitate silicone delivery.
The ease of use and compatibility with Elite Double Extra Fast (1 kg and 5 kg) and the principal duplication silicones on the market make Doublemix a versatile efficient appliance.



Doublemix

## Characteristics

- Rapid coupling of containers with flow shut-off valve
- Adjustable plate for holding mixing tip
- Optional clear 2 kg containers for use with main types of silicone



Doublemix

## Advantages

- Model duplication in just five minutes (using Elite Double Extra Fast)
- Consistently correct mixing ratio, thanks to the 1:1 ratio dosing pump
- Optimum control of silicone waste
- The quick connection system and flow shut-off valves prevent the formation of air bubbles during silicone delivery

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) |
|---|---|---|---|---|---|
| C309020 | Doublemix 230 V | 265 x 360 x 330 | 17 | 230 V ± 10 % / 50 - 60 Hz | 260 |
| C309021 | Doublemix 115 V | 265 x 360 x 330 | 17 | 115 V ± 10 % / 50 - 60 Hz | 260 |


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STANDARD COMPONENTS

| Code | Description |
|---|---|
| XR0240040 | Adapter with quick connection to male base for 1 kg Elite Double bottle |
| XR0240050 | Adapter with quick connection to female catalyst for 1 kg Elite Double bottle |
| C202070 | Yellow mixing tips (48 pcs) |
| XR0240150 | Bayonet filters for air venting |
| XR0240140 | Working area support plate with centred flask |
| XH9900010 | Allen wrench for mixing maintenance locking |

ACCESSORIES

| Code | Description |
|---|---|
| XR0240030 | Bracket Kit + front 5 kg Elite Double tank support (2 pcs) |
| XR0240010 | Plug with male base quick connection for Elite Double 5 kg tanks |
| XR0240020 | Plug with female catalyst quick connection for Elite Double 5 kg tanks |
| XR0240040 | Adapter with quick connection to male base for 1 kg Elite Double bottle |
| XR0240050 | Adapter with quick connection to female catalyst for 1 kg Elite Double bottle |
| XR0240070 | 2 kg clear container with female catalyst quick connection |
| XR0240060 | 2 kg clear container with male base quick connection |
| C202070 | Mixing tips yellow (48 pcs) |

Cod. XR0240030



Bracket Kit + front 5 kg Elite Double tank support (2 pcs)

Cod. XR0240070 - Cod. XR0240060



2 kg clear container with female catalyst quick connection

2 kg clear container with male base quick connection

Cod. XR0240010 - Cod. XR0240020




Plug with male base quick connection for Elite Double 5 kg tanks

Plug with female catalyst quick connection for Elite Double 5 kg tanks



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## **SQM 25 N** is designed for wet trimming of stone models.

It is fitted with a constantly functioning water cooling and washing system controlled automatically by a solenoid valve. The abrasive disc makes trimming precise, enabling the operator to meet the specific technical requirements of the task.



SQM 25 N

### Characteristics

- Water flow controller on front
- Aluminium case
- Abrasive bakelite disc complying with FEPA standards, AR 30

### Advantages

- The use of water helps reduce dust and keep the laboratory clean



SQM 25 N

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) | Speed (RPM) | Disk size (mm) |
|---|---|---|---|---|---|---|---|
| C305905 | SQM 25 N | 370 x 320 x 340 | 16.5 | 230 V ± 10 % / 50 Hz | 600 | 2800 | Ø 255 / thick. 6.5 / hole Ø 25.5 |

STANDARD COMPONENTS

| Code | Description |
|---|---|
| XR0091100 | Abrasive disc for SQM 25 N (water) |

ACCESSORIES

| Code | Description |
|---|---|
| XR0090036 | Worktop surface |
| XR0090140 | Orthodontic support |


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Equipment

# Casting and welding

Thirty-five years' experience in designing and making pre-heating furnaces. A solid background allowing Zhermack to produce technologically advanced appliances designed to satisfy the various needs of the dental laboratory.

With maximum functionality and complete operator safety.


**PRE-HEATING FURNACES**

DM ..... 92

DE ..... 92

**INFRARED WELDING MACHINES**

Quasar ..... 94

Quasar Plus ..... 94

**ELECTRONIC HEATER**

Cyclope ..... 96


Zhermack Dental



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## Zhermack offers classic and fast investment pre-heating furnaces.

**DM** series consists of multi-programme pre-heating furnaces indicated for preheating overnight and fast investments.
**DE** series are one-programme pre-heating furnaces with two holding phases, indicated for preheating fast investments.


DM 40

### Characteristics

DM
- Tube heating system: the heating elements are housed in special alumina tubes to offer high performance and reliability
- 10 storable four-phase programmes. The aspirator OFF temperature can be set
- Starting delay, with the possibility of setting the day and hour when the oven will start operation
- Optional fume extractor

DE
- Programme with one firing cycle consisting of two holding phases, each with the possibility of setting:
  - Temperature
  - Holding time
  - Heating speed
- Starting delay


DE 2

### Advantages

- The tube heating system makes heat exchange more efficient than in a traditional muffle
- Lower electricity consumption
- Reliability over time
- A programme can be modified, even while running


DM

| Equipment | Fast investments | Overnight investments |
|---|---|---|
| DM | ● | ● |
| DE | ● | |


https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) | Internal chamber size (L x D x H - mm) | Rings capacity |
|---|---|---|---|---|---|---|---|
| **C305300** | **DM 30** | 280 x 320 x 460 | 15 | 230 V ± 10 % / 50 - 60 Hz | 1550 | 120 x 160 x 95 | 3 x - 4 pcs<br>9 x - 2 pcs |
| **C305304** | **DM 40** | 350 x 370 x 490 | 26 | 230 V ± 10 % / 50 - 60 Hz | 2000 | 170 x 160 x 110 | 3 x - 6 pcs<br>9 x - 4 pcs |
| **C305308** | **DM 50** | 350 x 470 x 490 | 30 | 230 V ± 10 % / 50 - 60 Hz | 2400 | 170 x 260 x 110 | 3 x - 11 pcs<br>9 x - 6 pcs |
| **C305315** | **DE 1** | 250 x 320 x 430 | 15 | 230 V ± 10 % / 50 - 60 Hz | 1700 | 120 x 160 x 95 | 3 x - 4 pcs<br>9 x - 2 pcs |
| **C305316** | **DE 2** | 360 x 370 x 480 | 26 | 230 V ± 10 % / 50 - 60 Hz | 2400 | 170 x 160 x 110 | 3 x - 6 pcs<br>9 x - 4 pcs |

STANDARD COMPONENTS DM

| Code | Description |
|---|---|
| XI0030030 | Vent |
| XI0030070 | Ribbed refractory plate (DM 30) |
| XI0030073 | Ribbed refractory plate (DM 40) |
| XI0030075 | Ribbed refractory plate (DM 50) |
| XB0030370 | Square refracrory tube (DM 30) 2 pcs |
| XB0030180 | Square refractory tube (DM 40 - 50) 2 pcs |
| XI0031010 | Door open/close handle |
| XE9900140 | Hood socket |

STANDARD COMPONENTS DE

| Code | Description |
|---|---|
| XI0030030 | Vent |
| XI0031010 | Door open/close handle |

ACCESSORIES DM

| Code | Description |
|---|---|
| C305319 | Extractor for models DM |



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**Quasar** is an infrared welding machine for braze welding on precious metals and base alloys without direct flame.

Quasar welding machine is designed to produce thermal energy by means of an optical infrared system generating a maximum temperature of 1350°C. Quasar Plus has the same technical characteristics as Quasar welding machine, with the addition of a pedal device for spot welding the metal structure in argon atmosphere*.



Quasar Plus

## Characteristics

- Perfect thermal energy focussing on specific welding area
- Power regulation system allowing the heating temperature to be set. This allows the elements for welding to be heated gradually, avoiding damage to the crystalline structure
- Mechanical centring system for accurate spot welding of the elements



Quasar

## Advantages

- Quick and easy to learn welding method
- Infrared welding eliminates combustion and oxidation during the heating phase
- The Quasar Plus welding process is quicker than traditional and laser methods

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) | Max. temperature (°C) |
|---|---|---|---|---|---|---|
| C306800 | Quasar Infrared welding machine | 250 x 360 x 500 | 28 | 230 V ± 10 % / 50 - 60 Hz | 1200 | 1350 |
| C306810 | Quasar Plus Infrared welding machine with spot welding device | 250 x 360 x 500 | 29 | 230 V ± 10 % / 50 - 60 Hz | 1200 | 1350 |

*argon is not supplied with this machine. Ask a trusted supplier


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## Examples of application

### Bridge with 2 mm gap



### Implant bar



### Framework



STANDARD COMPONENTS

| Code | Description |
|---|---|
| XB0180216 | Electrodes CR/CO (for ceramics) 3 pcs Ø 0.8 mm for Quasar Plus |
| XI0180300 | Protective glasses |

ACCESSORIES

| Code | Description |
|---|---|
| XR0180050 | Cr/Co electrocodes (for ceramics) 10 pcs Ø 0.8 mm |
| XR0180070 | Cr/Co electrocodes (for ceramics) 10 pcs Ø 0.5 mm |
| XR0180060 | Cr/Co electrocodes (for removable prostheses) 10 pcs Ø 0.8 mm |
| XR0180080 | Cr/Co electrocodes (for removable prostheses) 10 pcs Ø 0.5 mm |
| XR0180090 | Au electrocodes (for gold alloy) 10 pcs Ø 0.8 mm |
| XR0180100 | Au electrocodes (for gold alloy) 10 pcs Ø 0.5 mm |
| XR0180270 | Protective glasses |



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**Cyclope** is designed to heat metal spatulas and similar tools used to model objects in dental wax. Electromagnetic induction heating.

With Cyclope, the majority of dental modelling can be done without using an open flame bunsen burner.



Cyclope

## Characteristics

- Electrical operation does not require connection to the mains gas supply
- The instrument reaches temperature in just two seconds
- Two silicon caps protect the chamber from scratches and wax residues

## Advantages

- Safety: no risk of burns and better air quality in the dental laboratory thanks to elimination of the naked flames which remove oxygen from the work environment
- Practicality: mobile and ready for use immediately, can be located in the most convenient position for the operator
- Energy saving: minimum consumption thanks to the heating control with two external sensors



Cyclope

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) |
|---|---|---|---|---|---|
| C308300 | Cyclope 230 V | 91 x 209 x 89 | 0.5 | 230 V ± 10 % / 50 - 60 Hz | 100 |

STANDARD COMPONENTS

| Code | Descrizione |
|---|---|
| XR0100000 | Protective silicone cap (2 pcs) |


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stomdevice



Equipment

# Surface polishing and cleaning

Good surface cleaning is fundamental for good final results. Thanks to its experience producing steam generators, Zhermack can offer valid equipment to support lab technicians during the finishing phase.


**STEAM CLEANERS**

VAP 8A and VAP 8 ..... 100

VAP 6A and VAP 6 ..... 102

**WATER SOFTENER**

AD 8 ..... 104

**ULTRASONIC BATH**

Zeta Sonic ..... 106

**SANDBLASTERS**

California ..... 108

Sand S 24 R ..... 110

**EXTRACTOR FOR SANDBLASTING MACHINES AND MODEL TRIMMERS**

SAB 1000 ..... 111


Zhermack Dental



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

The result of twenty years' experience making steam generators, Zhermack's **VAP 8** range satisfies the dental laboratory's needs for in-depth cleaning, heating power and long operating time.

Power, reliability and safety are the distinguishing characteristics of the VAP 8 and VAP 8A line of hot water and steam generators, designed for a long working life.
The VAP 8 and VAP 8A generate a flow of steam or hot water at high pressure, used to clean prostheses for dental use.



VAP 8A

## Characteristics

- Fixed 8 bar nozzle for dry steam
- Antistatic safety device
- Maximum working pressure 8 bar
- Electronic heating element protection system: when the water runs out, the system cuts off power to protect the heating element
- TSS (Triple Safety System)*
- Stainless steel 4 litre tank
- VAP 8: steam only
- VAP 8A: water and steam



VAP 8 | VAP 8A

## Advantages

- High pressure to satisfy the cleaning needs of the laboratory or surgery
- Reliability provided by high quality components and the experience in making steam generators
- CE certified safety (EMC, LVD and PED), EN61010



VAP 8 | VAP 8A

| Machine | Fixed prosthesis (steam only) | Removable prosthesis (only steam or water + steam) |
|---|---|---|
| VAP 8A | ● | ● |
| VAP 8 | ● | |

*Triple Safety System, 8 bar pressure switch, 9.5 bar safety pressure switch and certified numbered 12 bar safety valve.


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| Code | Model | Size (L x D x H - mm) | Net weight (kg) | Power supply (V / Hz) | Total power (W) | Water/steam | Filling | Max temperature (°C) | Optional pedal |
|---|---|---|---|---|---|---|---|---|---|
| C305220 | VAP 8 230 V | 370 x 450 x 380 | 20 | 230 V ± 10 % / 50 Hz | 1700 | Steam | Manual | 170 | No |
| C305225 | VAP 8 230 V with pedal | 370 x 450 x 380 | 20 | 230 V ± 10 % / 50 Hz | 1700 | Steam | Manual | 170 | Yes |
| C305223 | VAP 8A 230 V | 370 x 450 x 380 | 20 | 230 V ± 10 % / 50 Hz | 1700 | Water and steam | Automatic | 170 | No |
| C305226 | VAP 8A 230 V with pedal | 370 x 450 x 380 | 20 | 230 V ± 10 % / 50 Hz | 1700 | Water and steam | Automatic | 170 | Yes |
| C305222 | VAP 8 115 V | 370 x 450 x 380 | 20 | 115 V ± 10 % / 60 Hz | 1700 | Steam | Manual | 170 | No |
| C305242 | VAP 8 115 V with pedal | 370 x 450 x 380 | 20 | 115 V ± 10 % / 60 Hz | 1700 | Steam | Manual | 170 | Yes |
| C305236 | VAP 8A 115 V | 370 x 450 x 380 | 20 | 115 V ± 10 % / 60 Hz | 1700 | Water and steam | Automatic | 170 | No |
| C305238 | VAP 8A 115 V with pedal | 370 x 450 x 380 | 20 | 115 V ± 10 % / 60 Hz | 1700 | Water and steam | Automatic | 170 | Yes |

STANDARD COMPONENTS

| Code | Description |
|---|---|
| XI0020255 | Water filler funnel (VAP 8) |
| XE0802100 | Fuse |
| XI0020030 | Gun support hook |
| XF0486320 | Water inlet/outlet tap connection hoses (VAP 8A) |

ACCESSORIES

| Code | Description |
|---|---|
| XR0024110 | Litre counter |



https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

**VAP 6** and **VAP 6A** generate a flow of steam or hot water at high pressure to clean prostheses for dental use.



VAP 6

## Characteristics

- Maximum working pressure 6 bar
- Electronic heating element protection system: when the water runs out, the system cuts off power to the heating element
- TSS (Triple Safety System)*
- Stainless steel 4 litre tank
- VAP 6: steam only
- VAP 6A: water and steam



VAP 6A

## Advantages

- Top quality components for long-lasting reliability
- Ease of use
- CE certified safety (EMC, LVD and PED), EN61010

| Machine | Fixed prosthesis | Removable prosthesis (only steam or water + steam) |
|---|---|---|
| VAP 6A | ● | ● |
| VAP 6 | ● | |

*Triple Safety System, 6 bar pressure switch, 8 bar safety pressure switch and certified numbered 10 bar safety valve.


https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

| Code | Model | Size (L x D x H - mm) | Net weight (kg) | Power supply (V / Hz) | Total power (W) | Water/steam | Filling | Max temperature (°C) | Optional pedal |
|---|---|---|---|---|---|---|---|---|---|
| C305201 | VAP 6 - 230 V | 290 x 460 x 420 | 15 | 230 V ± 10 % / 50 Hz | 1700 | Steam | Manual | 140 | No |
| C305202 | VAP 6 - 230 V with pedal | 290 x 460 x 420 | 15 | 230 V ± 10 % / 50 Hz | 1700 | Steam | Manual | 140 | Yes |
| C305203 | VAP 6A - 230 V | 290 x 460 x 420 | 15 | 230 V ± 10 % / 50 Hz | 1700 | Water and steam | Automatic | 140 | No |
| C305210 | VAP 6A - 230 V with pedal | 290 x 460 x 420 | 15 | 230 V ± 10 % / 50 Hz | 1700 | Water and steam | Automatic | 140 | Yes |
| C305205 | VAP 6 - 115 V | 290 x 460 x 420 | 15 | 115 V ± 10 % / 60 Hz | 1700 | Steam | Manual | 140 | No |
| C305240 | VAP 6 - 115 V with pedal | 290 x 460 x 420 | 15 | 115 V ± 10 % / 60 Hz | 1700 | Steam | Manual | 140 | Yes |
| C305230 | VAP 6A - 115 V | 290 x 460 x 420 | 15 | 115 V ± 10 % / 60 Hz | 1700 | Water and steam | Automatic | 140 | No |
| C305232 | VAP 6A - 115 V with pedal | 290 x 460 x 420 | 15 | 115 V ± 10 % / 60 Hz | 1700 | Water and steam | Automatic | 140 | Yes |

STANDARD COMPONENTS

| Code | Description |
|---|---|
| XE0802100 | Fuse |
| XI0020255 | Water filler funnel (VAP 6) |
| XI0020030 | Gun support hook |
| XF0486320 | Water inlet/outlet tap connection hose (VAP 6A) |

ACCESSORIES

| Code | Description |
|---|---|
| XR0024110 | Litre counter |



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## **AD 8** is a water softener recommended for steam generators with mains water fill.

A cation resin water softener is the ideal solution, indispensable to prolong steam generator life.
In addition, by adding a simple T-junction, it can also supply demineralised water for other laboratory uses.



AD 8

### Characteristics

- Made from stainless steel
- Guaranteed continuous water delivery, even during resin regeneration
- Regenerated using NaCl (coarse cooking salt)

### Advantages

- The water softener extends the working life of the steam generator
- It produces demineralised water for other uses in the laboratory (e.g. for mixing stone), thus improving the quality of the elements
- Low maintenance costs (resin regeneration using coarse cooking salt)



AD 8

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Maximum flow rate (l / h) | Material | Resins | Resin regeneration | Incoming water pressure (bar) |
|---|---|---|---|---|---|---|---|---|
| C305208 | AD 8 | 300 x 200 x 400 | 8.5 | 900 | Stainless steel | Cation | NaCl (coarse cooking salt) | 1 - 8 |


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**Zeta Sonic** is an ultrasonic bath for a rapid and deep cleaning of dental prostheses and tools in metal, plastic, glass, ceramic or other materials.



Zeta Sonic

## Characteristics

- Stainless steel bath
- Waterproof display
- Innovative sweep and degas function
- Display to regulate time and temperature
- Auto-OFF (after 12 hours)

## Advantages

- Practicality: it helps in reducing the time for cleaning prostheses from gypsum or other materials. It speeds up the action of alginate and gypsum removal products
- Smart machine: maintains the temperature set during use and turns off by itself after 12 hours

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) | Internal tank dimensions (mm) | Volume/max. volume | Ultrasound frequency (kHz) | Max. ultrasonic effective power | Medical |
|---|---|---|---|---|---|---|---|---|---|---|
| C306403 | Zeta Sonic 230 V | 300 x 179 x 214 | ≈3.3 | 230 V ± 10 % / 50 - 60 Hz | 280 | 240 x 137 x 100 | 1.90 / 2.75 | 37 | 80 / 320 | Class I |


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STANDARD COMPONENTS

Cod. XC0140001



Basket

Cod. XC0140002



Filter

Cod. XI0140002



Lid/tray for basket

Cod. XR0140001



Drain hose

Cod. XR0140002



Drain kit

ACCESSORIES

Cod. XR0140003



Glass beaker with lid

Cod. XR0140008



Lid for beakers

Cod. XR0140027



Rack for burs



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## **California** is a modular micro sandblaster for smoothing, polishing and roughening sandblasting prosthetic elements.

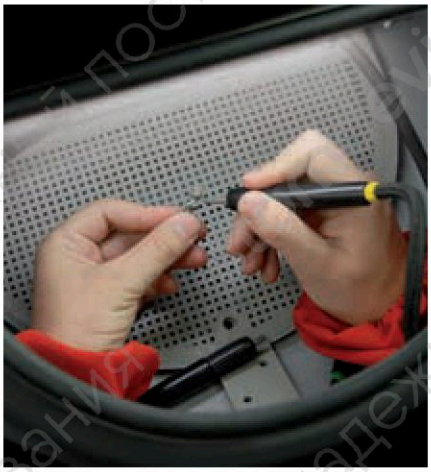
Conceived to support the lab technician during sandblasting, this tool is efficient, simple to use and fast.
Thanks to its technical features, the California sandblaster is designed for a long working life, while at the same time improving the quality and ease of sandblasting and, above all, reducing consumption and working costs.



California

### Characteristics

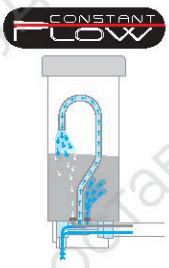
- Pinch valve to stop the flow of air and sand instantly, appreciably reducing sand consumption.
- Constant flow. Designed down to the smallest detail to obtain a constant flow even at low pressures:
  - Double flow of air in the cylinder (25 - 70 µm cylinder only)
  - Double flow of air in the cylinder base (all cylinders)
  - Calibrated tubes and parabolic nozzle
- Designed to last. Technical design focussing on improved reliability: inlet tubes entering the chamber directly, high quality pneumatics

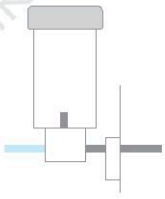


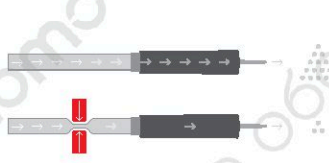
California

### Advantages

- Low consumption
- Constant flow even at low pressures (particularly indicated for pressed ceramics and cosmetic elements, such as veneers)




| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) | Operating pressure (bar) | Required input pressure (bar) | Tank capacity (l) | Sand (µm) |
|---|---|---|---|---|---|---|---|---|---|
| C305621 | California 2 cylinders | 460 x 490 x 435 | 13 | 230 V ~ ± 10 % 50 / 60 Hz<br>115 V ~ ± 10 % 50 / 60 Hz | 50 | 2 - 6 | 6 - 8 | 1 | 25 - 250 |
| C305620 | California 3 cylinders | 460 x 580 x 490 | 13 | 230 V ~ ± 10 % 50 / 60 Hz<br>115 V ~ ± 10 % 50 / 60 Hz | 50 | 2 - 6 | 6 - 8 | 1 | 25 - 250 |

Use of California in 115 V~ requires suction 115 V~ with adapter


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STANDARD COMPONENTS

| Code | Description |
|---|---|
| XH9900111 | Long parabolic nozzle Ø 0.8 mm |
| XH9930040 | Short nozzle Ø 1.3 mm |
| XI0060070 | Sandblasting gloves |

STANDARD COMPONENTS

| Code | Description |
|---|---|
| XI0060725 | Glass protection sheet |
| XI0065261 | LED lighting protection sheet |
| XF0464130 | Extraflex 6 / 4 connection tube 1.5 m |

ACCESSORIES

Cod. XR0061600



Additional module (70 - 250 micron sand)

Cod. XR0061550



Double suction kit

Cod. XR0060040



Short nozzle Ø 0.8

Cod. XR0061890



Long parabolic nozzle Ø 1.3 mm




Zeta Sand: aluminium oxide and glass beads for sanding.
More information on page 72



SAB 1000: Extractor for sandblasting machines.
More information on page 111



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**Sand S 24 R** is a dual-module sandblasting machine with recycling system for the sandblasting of dental prostheses.

Used for devesting, roughening and surface treatments.



Sand S 24 R

## Characteristics

- Recycling system, equipped with Widia nozzle (ø 3 mm), which allows reuse of material deposited on the bottom in rough-shaping operations
- Equipped with two cylinders with a usable capacity of approximately 0.5 litres each
- Cylinder selector inside the chamber

## Advantages

- Low sand consumption thanks to the recycling system
- Greater dependability and low maintenance for a minimum investment cost

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) | Operating pressure (bar) | Required input pressure (bar) | Tank capacity (l) | Sand (µm) | Recycling |
|---|---|---|---|---|---|---|---|---|---|---|
| **C305604** | **Sand S 24 R** | 370 x 420 x 370 | 11 | 230 V ± 10 % / 50 - 60 Hz | 9 | 3 - 6 | 6 - 8 | 0.5 | 25 - 250 | Yes |

STANDARD COMPONENTS

| Code | Description |
|---|---|
| XR0060040 | Nozzle ø 0.8 mm |

| Code | Description |
|---|---|
| XR0060050 | Nozzle ø 1.3 mm |

ACCESSORIES

| Code | Description |
|---|---|
| XR0060050 | Widia nozzle ø 1.3 mm for sands from 110 to 250 µm |
| XR0060040 | Widia nozzle ø 0.8 mm for sands from 60 to 110 µm |
| XH9900050 | Nozzle ø 3 mm for sand recycle |

| Code | Description |
|---|---|
| XR0060612 | Extra filter for Sand S 24 R |
| XR0060065 | Glass protection sheet (10 pcs) |




Zeta Sand: aluminium oxide and glass beads for sanding.
More information on page 72



SAB 1000: Extractor for sandblasting machines.
More information on page 111


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**SAB 1000** aspirator is designed for use with sandblasters.


SAB 1000

## Characteristics

- High power and reliability
- Guaranteed filtering up to 0.3 µm
- Two-ply filter paper specifically for extrafine sands

## Advantages

- Excellent aspiration of sand from the blasting chamber
- Reliable, easy cleaning and maintenance
- Powerful constant aspiration

| Code | Model | Size (L x D x H - mm) | Weight (kg) | Power supply (V / Hz) | Total power (W) | Air flow ($m^3$ / h) |
|---|---|---|---|---|---|---|
| C305608 | SAB 1000 Extractor for sandblasting machines | 420 x 420 x 560 | 9 | 230 V ± 10 % / 50 - 60 Hz | 1000 | 150 |

ACCESSORIES

| Code | Description |
|---|---|
| XR0060010 | Triple filter bag (for SAB 1000 - 10 pcs) |


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F300072 - 18-03

# Fulfilling your needs

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Zhermack

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