

elite[®] dental stones



WE CAN'T EXPAND!

Technical
Dental Stones

Zhermack[®]
TECHNICAL



elite® master
Type 4 extra hard resin reinforced dental die stone for fixed prosthesis and implantology



elite® stone
Type 4 dental die stone for models in removable prosthesis



elite® rock
Type 4 extra hard dental die stone for fixed prosthesis



elite® base
Type 4 dental stone for bases



elite® model
Type 3 dental stone for antagonists and models in general



elite® ortho
Type 3 stone for orthodontic models



elite® arti
Type 3 articulating dental stone

ZHERMACK INTERNAL PRODUCTION

The **ELITE[®]** range of stones are entirely formulated and produced within Italy Zhermack's production facilities.

With full control of all productive processes, from the selection of raw materials to the realization of the finished product.

A decade of experience in the formulation of stones, guarantees the highest quality standards.

CONTINUOUS INNOVATION

Innovation is the inspiring principle of every **ZHERMACK** project. New frontiers of scientific research and the collaboration with technicians have allowed **ZHERMACK** researchers to develop **unique, cutting edge products** like new **ELITE[®] MASTER**. A stone that has exclusive characteristics including a resin filler which gives the finished product a **compact, marble-like finish**.

COMPLETE RANGE

The **ELITE[®]** range of dental stones is amongst the broadest on the market. For every product there is a **vast selection of colours** and different packaging as **ZHERMACK** stones are able to meet **all the requirements of a laboratory**.

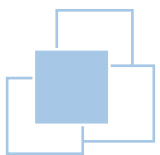
elite[®] dental stones

The ELITE[®] stones are compatible with all impression materials available on the market, including polyethers and hydrocolloids, and are formulated to obtain the best performance with ZHERMACK impression materials.

Dental stones produced by ZHERMACK are distinguished in type 3 and type 4.

type 3

The **type 3** stones are defined as **hard stones for models** and have an enhanced resistance to compression and abrasion. These stones are used for **antagonist models, study models, articulators** and **flasking of dentures**.



elite[®] **model**
elite[®] **model fast**



elite[®] **arti**
elite[®] **arti fast**



elite[®] **ortho**

type 4

The **type 4** stones are defined as **extra hard stones for dies** characterized by **enhanced hardness** and **low expansion**. They must have high resistance to compression and abrasion. They are used mainly in the preparation of **dies for fixed prosthesis, chrome models**, and making **bases**.

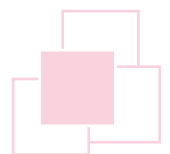
elite[®] **master**



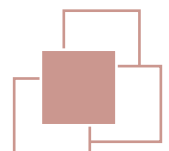
elite[®] **rock**
elite[®] **rock fast**



elite[®] **stone**



elite[®] **base**



elite[®] master

- ☐ **Type 4 extra hard resin reinforced** dental die stone for fixed prosthesis and implantology

The new benchmark for master models



DESERT SAND



SANDY BROWN



SOFT GREY



COLOURS



APPLICATIONS

Production of **models** and **removable dies in fixed prosthesis**, removable prosthesis and implantology.

ADVANTAGES

- The resin particles **inside the formulation** provide high **elasticity and splintering resistance for an optimal chamfering**
- The **resin particles** reduce water absorption guaranteeing the **accuracy of the model**
- **Operator safety** due to a formaldehyde free formula
- **Low expansion**, even after 48 hours



Thanks to its special formulation that is optimised for **CAD/CAM** systems, the models in **desert sand, sandy brown and soft grey** colours are perfectly detected by all **modern laser and optical scanners**.

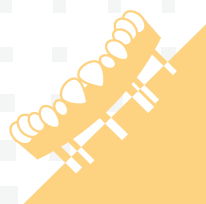
TECHNICAL DATA

Water/powder ratio	21 ml/100g
Removal time	45 mins
Setting expansion 2 hrs	0.08%
Compressive strength 48 hrs	75 MPa (765 kg/cm ²)

elite[®] rock

□ *Type 4 extra hard* dental die stone for fixed prosthesis

A perfect balance between thixotropy and fluidity



SANDY BROWN



CREAM



SILVER GREY



LIGHT AMBER



WHITE



COLOURS



APPLICATIONS

Production of ***models*** and ***removable dies*** in fixed and removable prosthesis.

ADVANTAGES

- ***Simplified mixing*** and ***balanced thixotropy***
- The ***high compressive strength*** guarantees reduced abrasion and ***higher precision*** of the model
- ***Low expansion***, even after 48 hours



Thanks to its special formulation that is optimised for ***CAD/CAM*** systems, the models in ***silver grey*** colour are perfectly detected by all ***modern laser and optical scanners***.

TECHNICAL DATA

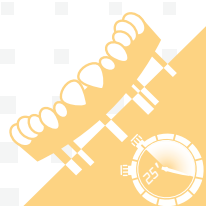
Water/powder ratio	20 ml/100 g
Removal time	45 mins
Setting expansion 2 hrs	0.08 %
Compressive strength 48 hrs	81 MPa (826 kg/cm ²)

elite[®] rock fast



□ **Type 4 extra hard fast** dental die stone for fixed prosthesis

Precision and speed without compromise



SANDY BROWN



CREAM



SILVER GREY



COLOURS



APPLICATIONS

Faster production of **models** and **dies** for fixed and removable prosthesis.

ADVANTAGES

- **Fast casting** of the model in only 25 mins maintaining an **adequate working time**
- **Simplified mixing** and **balanced thixotropy**
- The **high compressive strength** guarantees reduced abrasion and **higher precision** of the model
- **Low expansion**, even after 48 hours



Thanks to its special formulation that is optimised for **CAD/CAM** systems, the models in **silver grey** colour are perfectly detected by all **modern laser and optical scanners**.

TECHNICAL DATA

Water/powder ratio	20 ml/100 g
Removal time	25 mins
Setting expansion 2 hrs	0.08 %
Compressive strength 48 hrs	81 MPa (826 kg/cm ²)

elite[®] stone

□ *Type 4 dental die stone* for models in removable prosthesis

Pure resistance



PINK



NAVY BLUE



BROWN



AQUA GREEN



COLOURS



APPLICATIONS

Production of *models for chromes, removable prosthesis* and *antagonists*.

ADVANTAGES

- *Thixotropic*
- *Improved compressive strength* and to thermal shock
- *Low expansion*, even after 48 hours

TECHNICAL DATA

Water/powder ratio	25 ml/100 g
Removal time	45 mins
Setting expansion 2 hrs	0.08 %
Compressive strength 48 hrs	60 MPa (612 kg/cm ²)

elite[®] base

□ *Type 4 dental* stone for bases

Optimal fluidity



TERRACOTTA RED



ROYAL BLUE



PEACH ORANGE



GREY



WHITE



COLOURS



APPLICATIONS

Production of bases for *models* in the *removable die* technique.

ADVANTAGES

- **Optimized expansion** for combined use with type 4 stones for dies, in particular with *elite[®] rock*, *elite[®] rock fast*, *elite[®] master*
- **Fluidity and perfect casting** without vibration
- **Optimal compressive strength** for an unaltered positioning of the pins inside the base

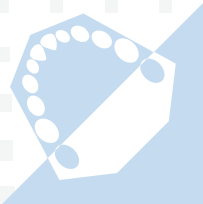
TECHNICAL DATA

Water/powder ratio	23 ml/100 g
VICAT Setting time	18 mins
Setting expansion 2 hrs	0.05 %
Compressive strength 48 hrs	83 MPa (846 kg/cm ²)

elite[®] model

□ *Type 3 dental stone* for antagonists and models in general

Thixotropic if needed



STEEL BLUE



IVORY



WHITE



COLOURS



APPLICATIONS

Production of *models in general*, *antagonists* and *flasking of removable prosthesis*.

ADVANTAGES

- ***Thixotropic***
- ***Optimal compressive strength***
- ***Extreme versatility*** due to its superior characteristics compared to other stones of the same class

TECHNICAL DATA

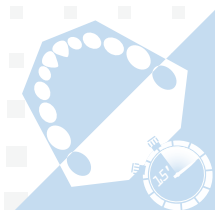
Water/powder ratio	30 ml/100 g
Removal time	45 mins
Setting expansion 2 hrs	0.04 %
Compressive strength 48 hrs	62 MPa (632 kg/cm ²)

elite[®] model fast



□ **Type 3 fast dental** stone for antagonists and models in general

The fastest setting stone for antagonists



SKY BLUE



LIGHT CREAM



WHITE



COLOURS



APPLICATIONS

Quick production of **general models**, **antagonists** and **flasking of removable prosthesis**.

ADVANTAGES

- **Fast casting** of the model in only 15 mins maintaining an adequate working time
- **Thixotropic**
- **Optimal compressive strenght**
- **Extreme versatility** due to its superior characteristics compared to other stones of the same class

TECHNICAL DATA

Water/powder ratio	30 ml/100 g
Removal time	15 mins
Setting expansion 2 hrs	0.1 %
Compressive strength 48 hrs	65 MPa (662 kg/cm ²)

elite® arti

□ **Type 3 articulating** dental stone

Total adhesion



WHITE



COLOURS



APPLICATIONS

Mounting of *models for articulation*.

ADVANTAGES

- **Perfect adhesion 25% higher than all competitors***, to all dental stones, in particular to **elite® base, elite® model and elite® stone**
- **Minimal expansion** to maintain the occlusion unaltered
- **Thixotropic** to simplify the positioning of the articulator

TECHNICAL DATA

Water/powder ratio	30 ml/100 g
VICAT Setting time	5 mins
Expansion after 2 hrs	0.02 %
Resistance to compression after 48 hrs	59 MPa (602 kg/cm ²)

*Zhermack internal data

elite® arti fast

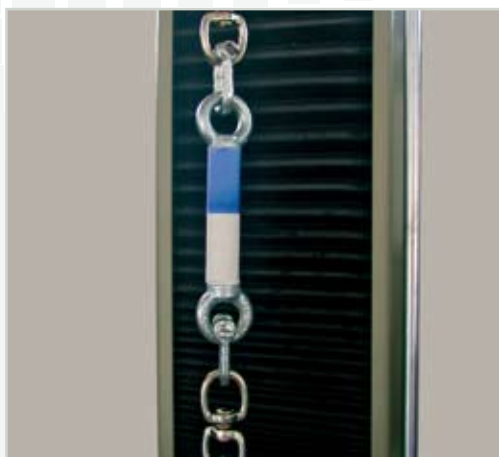


□ *Type 3 fast setting* articulating dental stone

Maximum adhesion and fast setting



WHITE



COLOURS

APPLICATIONS

Fast mounting of *models for articulation*.

ADVANTAGES

- **Fast setting** of models in articulators in only 3 mins
- **Perfect adhesion 25% higher than all competitors***, to all dental stones, in particular to **elite® base**, **elite® model** and **elite® stone**
- **Minimal expansion** to maintain the occlusion unaltered
- **Thixotropic** to simplify the positioning of the articulator

TECHNICAL DATA

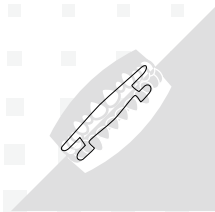
Water/powder ratio	30 ml/100 g
VICAT Setting time	3 mins
Expansion after 2 hrs	0.02 %
Compressive strength 48 hrs	59 MPa (602 kg/cm ²)

*Zhermack internal data

elite[®] ortho

□ **Type 3 stone** for orthodontic models

The shine of whiteness



WHITE



COLOURS



APPLICATIONS

Production of *models* for *orthodontics* and *antagonists*.

ADVANTAGES

- *Whiteness with a glossy effect* after polishing
- *Thixotropic*
- *Optimal compressive strength*

TECHNICAL DATA

Water/powder ratio	24 ml/100 g
Removal time	45 mins
Setting expansion 2 hrs	0.04 %
Compressive strength 48 hrs	60 MPa (612 kg/cm ²)

Packaging

	200 g	1 kg	3 kg	25 Kg sack	25 Kg drum
ELITE® MASTER					
desert sand	C410400	C410401	C410402	C410403	C410404
sandy brown	-	C410409	C410410	C410411	C410412
soft grey	-	C410405	C410406	C410407	C410408
ELITE® ROCK					
sandy brown	C410033	C410032	C410030	C410200	C410334
cream	C410025	-	C410020	C410201	C410332
silver grey	-	-	C410010	C410202	C410330
light amber	-	-	C410035	C410203	C410335
white	-	C410002	C410000	C410204	C410336
ELITE® ROCK FAST					
sandy brown	C410152	C410151	C410150	C410205	C410337
cream	C410162	-	C410160	C410207	C410339
silver grey	C410157	-	C410155	C410206	C410338
ELITE® STONE					
pink	-	-	C410048	C410214	C410315
navy blue	C410055	-	C410050	C410210	C410310
brown	C410042	-	C410040	C410211	C410312
aqua green	-	-	C410043	C410212	C410313
ELITE® BASE					
terracotta red	C410445	-	C410448	C410446	C410447
royal blue	C410434	-	C410437	C410435	C410436
peach orange	C410430	-	C410433	C410431	C410432
grey	-	-	C410440	C410438	C410439
white	C410441	-	C410444	C410442	C410443
ELITE® MODEL					
steel blue	C410072	C410071	C410070	C410221	C410302
ivory	C410082	C410081	C410080	C410220	C410304
white	-	C410061	C410060	C410222	C410300
ELITE® MODEL FAST					
sky blue	C410062	C410066	C410065	C410224	C410306
light cream	C410069	C410068	C410067	C410226	C410308
white	-	C410064	C410063	C410228	C410309
ELITE® ARTI					
white	C410102	C410101	C410100	C410240	C410350
ELITE® ARTI FAST					
white	C410107	C410106	C410105	C410241	C410351
ELITE® ORTHO					
white	C410092	C410091	C410090	C410230	C410320

Accessories

C300992	Rubber bowl
C300991	Spatula
C410462	Water dispenser
C410461	Measuring scoop
C400440 GYPSTRAY	1 bottle 2l neutral pH cleaning agent for removing dental gypsum from trays, resin prothesis and instruments

Equipment

C305120 ELITE® MIX	Vacuum mixer for gypsums and investments 230V
C305125 ELITE® MIX	Vacuum mixer for gypsums and investments 115V

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