Dental Office Products 2018/2019 Quality products and services for your success.

Giving a hand to oral health.





Giving a hand to oral health.

Dear customers,

As you surely noticed from the cover of this catalogue, our name now is Kulzer. It is a name that has stood for reliable and innovative dental products for more than 80 years – and we will stay true to that reputation. Our goal is to provide you with best-in-class solutions that empower you to design production processes that are safe, more convenient, and at the same time cost-effective. We continuously expand our portfolio of dental materials and technologies to reach these goals on your behalf. In the road ahead, an even stronger R&D department backed up by the innovating power of our parent company, Mitsui Chemicals, will support this aim.

We create solutions that ensure efficient processes in your dental practices. Our intraoral scanner cara TRIOS enables you to start with the automated process in the treatment chair, followed by cara solutions that ensure seamless integration with CAD/CAM production in labs. In addition to the digital realm, we continually develop our classic materials so that they can be used for even more indications. Even with our new look and name, we will remain your reliable lifetime partner and continue to expand upon our customer-oriented products and services. In future, you can rely on our enlarged customer service to help you take advantage of the opportunities that new technologies offer. If you are also interested in developing your professional skills, you can benefit from our extensive training programme. Together with you, we are giving a hand to oral health.

Rediscover a reliable partner – in this catalogue, at our events, and in a personal conversation.

Yours sincerely

les

Marc Berendes, CSO

Marc Berendes, CSO

"In our system solutions, materials, technologies and services are interconnected from the very start."

PRODUCTS BY CATEGORIE

DENTAL OFFICE





Intraoral X-ray Films – Agfa Dentus

- Extraoral X-ray Films Agfa Dentus Ortholux Agfa Dentus Duplicating
- Accessories
- Agfa Dentus Film Cassettes & Intensifying Screens
- Agfa Dentus
 X-ray Chemicals

cara Hardware and Software

Implant Prosthetics – cara I-Bridge – cara I-Brar

- cara YantaLoc
- **Crowns & Bridges**

Prosthetics

- cara crowns, bridges and more

Articulating/Alabaster

Plasters – Moldafix

- - Moldabaster
 - Moldabaster S

Typ III Hard Plaster

- Moldano - Moldadur

Typ IV Super Hard Plaster – Moldastone – Moldastone CN

- Moldasynt – Moldarock Royal

Investment materials

- Moldavest futura
 Moldavest exact
 Heravest Speed

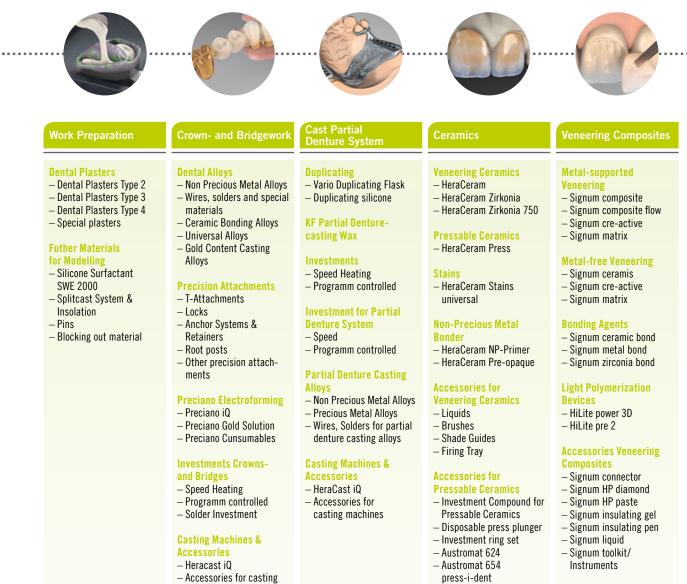
- Heravest Premium 2
- Heravest M print+
- Heravest Press
- Levotherm / Levogel

Tray material, isolation material/laboratory

silicone – Neo Durotherm 7

PRODUCTS BY CATEGORIE

LABORATORY



machines

Cast Treament & Soldering

- Consumables
- Abrasive Material
- Etching Materials and Flux



Pala Mix & Match – Pala Premium

Denture Teeth

- Pala Idealis
- Pala Mondial
- PalaVeneer

Classic

Basic

Accessories Teeth

- Pala Mix & Match Shade Guide
- Tooth Cabinets

cara Production Service

Implant Prosthetics

Crown and Bridges

Prosthetics

cara Hardware and Software

Laboratory Devices and Equipment

Casting Machines

- Heracast iQ - Accessories for casting

machines

Electroforming Unit - Preciano iQ

Injection Unit

– Palajet

Polymerization Units – Palamat elite

- HiLite power 3D
- HiLite pre 2
- **Ceramic furnace**

Austromat 624
Austromat 654 press-i-dent

- **Tooth-coloured Acrylic**
- Palavit 55 VS

Denture Materials

Cold Curing Denture

Acrylics – PalaXpress ultra

Palapress vario
Paladur

Heat Curing Denture

Paladon 65
Meliodent Heat Cure

Tray and Model Acrylics

- Meliodent RR

- Paladent 20

– Palatry XL – Palavit L – Palavit G – Palavit M

Acrylics

PalaXpress
Palapress

- PalaVeneer Dentine

Characterization

- Pala cre-active

Finishing

- Palaseal
- Palaclean

Denture Manufacturing

- Aislar
- Palabond

- Manufacturing
- Contact A

- Further Accessories for

Equipment for Denture

- Palamat elite
- Palajet

Accessories Denture Materials

- Pala Shade Guide
- PalaMeter
- PalaBox
- **Denture Materials**



1 3	SERVICE	12–15
1.1	Contact and Services Your contact to Kulzer	<mark>12</mark> 12
1.2	Kulzer Trainings Center H	anau 14
1.3	Kulzer Expertpool	15

2PREVENTIVE MATERIALS16-212.1Desensitizer
GLUMA Desensitizer16
20

3	PAIN CONTROL	22-35
3.1	Infiltration and Nerve Block Anaesthesia SOPIRA Carpule Syringes	26 26
3.2	Intraligamentary Anaesthesia SOPIRA Citoject Syringes	27–28 27
3.3	Infiltration and Nerve Block Anaesthesia SeleKt+ Needles	32–33 32
3.4	Intraligamentary Anaesthesia SeleKt+ Needles	34–35 34

4 RESTORATIVE MATERIALS 36–69

4.1	Filling Materials Charisma Diamond Charisma Topaz Charisma Classic Charisma Smart Charisma Opal Flow Charisma Flow Durafill VS	40-49 40 42 44 46 48 49 50
4.2	Adhesives & Etchants GLUMA Bond Universal GLUMA Self Etch GLUMA 2Bond GLUMA Bond5 GLUMA Etch	52 – 59 54 56 57 58 59
4.3	Accessories & LED Curing Lights Translux 2Wave Translux Wave Charisma EasyShine Diamond Burs Ivory Rubber Dam & Clamps	60 - 69 62 63 64 65 68



5	PROSTHETICS	70–113
5.1	A-silicone VPS Precision Impression Materials Variotime	74-77 74
5.2	C-silicone Impression Materials Optosil & Xantopren	80-85 80
5.3	Alginate & Alginate Substitute Impression Materials ALGINoplast xantALGIN xantasil	88-91 88 88 90
5.4	Bite Registration & Special Indications Variotime Bite MEMOSIL 2	94 - 95 94 95
5.5	Prosthetics Equipment Dynamix speed Accessories Impression Material	98–101 98 100
5.6	Cements & Luting Materials iCEM Self Adhesive Carboxylate Cement Phosphate Cement	104–107 104 106 107
5.7	Temporary Materials PreVISION Cem Dentalon plus	108–113 110 112

6	CAD/CAM	114–125
6.1	cara Hardware and Software	116
6.2	Implant Prosthetics cara I-Butment cara I-Bridge cara I-Bar cara YantaLoc	117 118 119 120 121
6.3	Crown and Bridge Prosthetics cara crowns, bridges and more	122–125 122



7)	(-RAY MATERIALS	126–131
7.1	Intraoral X-ray Films Agfa Dentus	128 128
7.2	Extraoral X-ray Films Agfa Dentus Ortholux Agfa Dentus Duplicating	129 129 129
7.3	Accessories Agfa Dentus Film Cassettes & Intensifying Screens Agfa Dentus X-ray Chemicals	130–131 130 131

8 LABORATORY PRODUCT LINE 132–157

0.1	A straight and the device Directory	100 107
8.1	Articulating/Alabaster Plasters	136–137
	Molda-Arti	136
	Moldafix	136
	Moldabaster	137
8.2	Typ III Hard Plaster	138-139
	Moldano	138
	Moldadur	138
8.3	Typ IV Super Hard Plaster	140–145
	Moldarock Royal	140
	Dental Plasters Type 4	140
	Moldastone	141
	Moldastone CN	142
	Moldasynt	142
8.4	Investment materials	146-154
	Moldavest futura	147
	Moldavest exact	147
	Neo Durotherm 7	149
	Heravest M print*	150
	Moldavest master	150
	Moldavest master run	150
	Levotherm	151
	Levogel	151
	Heravest Press	
		152
	Heravest Premium 2	153
	Heravest Speed	154
8.5	Tray material, isolation material/laboratory silicone	156
	Pekatray	156
	Optosil	156

9 GENERAL TERMS OF DELIVERY 158–159

9.1 General Terms of Delivery

158



SERVICES YOUR CONTACT TO KULZER

COSTUMER SERVICE CENTER

WE ARE THERE FOR YOU - YOUR DIRECT LINE TO US

Want to know more about our equipment, materials and services?

Have questions about the availability of our products in your region? The experienced staff at our Customer Centre in Hanau will give you expert personal advice.

Country	Name	Temporary replacement
	TEAM WESTERN EUROPE	
	Wiltrud Felten Group Manager	Benjamin Kerber (Group Manager)
SPAIN UNITED KINGDOM IRELAND PORTUGAL	Stefanie Müller	Wiltrud Felten (Spain, Portugal) Daniela Buchholz (UK, Ireland)
FRANCE FRENCH OVERSEAS TERRITORIES	Juliana de Vries-White	Patrizia Delle Grazie
ESTONIA LATVIA LITHUANIA	Daniela Buchholz	Matthias Ebel
DENMARK FINLAND ICELAND SWEDEN NORWAY	Matthias Ebel	Melanie Sauer
ITALY	Patrizia Delle Grazie	Juliana de Vries-White Wiltrud Felten
AUSTRIA SWITZERLAND GREECE CYPRUS NETHERLANDS BELGIUM LUXEMBOURG	Melanie Sauer	Matthias Ebel
BENELUX CHINA HONGKONG	Doris Höfling	Stefanie Müller

Country	Name	Temporary replacement
	TEAM EASTERN EUROPE	
	Benjamin Kerber Group Manager	Wiltrud Felten
AZERBAIJAN, POLAND SLOVAKIA, UKRAINE TURKEY, KAZAKHSTAN BELARUS, ARMENIA	Sascha Burkhardt	Michaela Schallmayer Michael Krah
CZECH REPUBLIC HUNGARY RUSSIA BULGARIA	Michaela Schallmayer	Sascha Burkhardt Michael Krah
CROATIA, SERBIA, SLOVENIA BOSNIA-HERZEGOVINA ALBANIA, MAZEDONIA GEORGIA, MOLDAWIA ROMANIA, KOSOVO	Michael Krah	Michaela Schallmayer Sascha Burkhardt
	TEAM ASIA-PACIFIC, AMERICAS, AFRIC	
JAPAN	Michael Eschmann	Petra Scheidemantel
THAILAND, SINGAPORE SOUTH KOREA, MALAYSIA TAIWAN, PHILIPPINES PAKISTAN, INDIA MONGOLIA, MYANMAR	Carmen Jost	Lourdes Alvarez-Campos
MIDDLE EAST VAE	Marcus Noss	Ulrike Malth
AUSTRALIA, AFRICA IRAN, NEW ZEALAND INDONESIA, VIETNAM ISRAEL, MALTA, EGYPT LIBYA, CAMBODIA, MALAYSIA	Petra Scheidemantel	Michael Eschmann
CENTRAL AMERICA SOUTH AMERICA BRASIL MEXICO	Lourdes Alvarez Campos	Carmen Jost
USA CANADA	Ulrike Malth	Marcus Noss

1 SERVICES

1.2 KULZER TRAINING CENTER HANAU

MASTER-CLASS TRAININGS OF ALL KULZER PRODUCTS: SIMULATED DENTISTRY TRAININGS AND COMPLETE DIGITAL WORKFLOWS IN THE LABORATORY.



Conference Room with sophisticated AV-capabilities for learning at high level



Laboratory Classroom equipped with perfect dental workplaces & AV-capabilities

Multimedia:

All classrooms are very well equipped with high end conversation and mediatransmission technology

Training varities:

From Impression taking via CAD/CAM to veneering. Hands on restauratives and medical therapie under life like conditions

Experts:

Our most experienced trainer will share their knowledge, tips and tricks in a range of languages



Simulation Room ultramodern dentistry simulation units for training all kind of patient treatment



Technical Area fully equipped dental laboratory



Bénédicte Pretscher

ASK FOR FURTHER INFORMATION ON COURSE BOOKINGS NOW!

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14

1.3 KULZER EXPERTPOOL

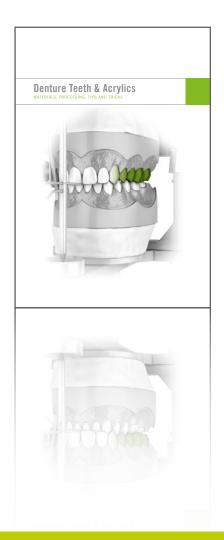
DENTAL KNOWLEDGE

The latest book in the series "Dental Knowledge" from Kulzer, **"Denture Teeth and Acrylics: materials, processing, tips and tricks"** provides important knowledge about manufacturing, characterisation, repair and care of dentures. The first part of the book examines materials and processes. Key focus is on PMMA-based components of denture acrylics and innovative fillers in artificial teeth as well as, acrylic processing procedures in dental manufacturers and the laboratory environment.

Furthermore the book includes the physical and chemical properties of teeth and denture base material as well as the prerequisites for biocompatibility and long duration of use for denture teeth. The practical section of the book includes the technical procedure for producing dentures, from the first step of taking an impression, through to the set up and gingival models, and even up to individual characterisation.

In addition, there are helpful tips and information regarding denture care, repair and relining. The acrylic troubleshooting guide at the end of the book explains the possible causes for bubble formation, discolouration, cracks and several other issues by giving valuable tips on how to avoiding these issues.

Please contact your local partner if you want to order this book. Article No. 66054983



RELIABLE PROTECTION AGAINST HYPERSENSITIVITY.

Preventive also encompasses prevention of hypersensitivity. Because it often considerably impairs the patient's well-being. Desensitisation measures protect the teeth from hypersensitivity and your patients from pain. Use GLUMA® during every restoration – whether direct or indirect – to give your patients the comfort they wish for.

2	Preventive Materials	16-21	
2.1	Desensitizer GLUMA Desensitizer	20 20	

DESENSITIZER – OUR TESTED SOLUTION AGAINST HYPERSENSITIVE TEETH.

Hypersensitivity of the teeth is one of the factors that has the greatest influence on patient wellness. Whether sweet or sour, hot or cold - the acute pain is extremely unpleasant. Your patients will be delighted that you have relieved them of this discomfort. Our GLUMA Desensitizer has everything you need to reduce and prevent hypersensitivity. The results appear quickly and effectively, without mixing, curing or multiple applications. Your patients feel immediate relief.



GLUMA® Desensitizer More gain, less pain.

Giving a hand to oral health.



GLUMA DESENSITIZER

GLUMA[®] DESENSITIZER — GAINING VICTORY OVER PAIN.

For over 20 years, one drop of GLUMA Desensitizer has been sufficient to reduce and prevent hypersensitivity. The results appear quickly and effectively, without mixing, curing or multiple applications. Your patients feel immediate relief. Every good restoration starts with the GLUMA Desensitizer. Its efficacy has been proven in over 50 million restorations. It can be used with all common adhesives and restoration materials and in every treatment situation. GLUMA Desensitizer neither needs to be stirred or light cured. This simplifies application and saves time.

- Desensitise: GLUMA Desensitizer is the only desensitizer that has been proven to penetrate exposed dentinal tubules up to 200 µm. This leads to the formation of multilayered protein walls which prevent an osmotic fluid exchange with the internal tubules.
- Block bacteria: GLUMA Desensitizer forms a hermetic seal which traps the bacteria and prevents bacterial growth.
- **Re-wetting:** GLUMA Desensitizer reorganises collapsed collagen fibres and thus improves the adhesiveness of several adhesives.

Indications

• For the reduction or elimination of pain in exposed cervical areas that do not require restoration and the reduction or elimination of dentine sensitivity after preparation of teeth to receive a fixed prosthesis.



PRODUCT OUTLINE

GLUMA DESENSITIZER

Desensitizer Accessories Content Content 1 x 5 ml Bottle, Pictorial Card 2 x 50 Applicator Tips in size slim and regular Art. code 6600 3764



GLUMA® DESENSITIZER — EASILY APPLIED — WIDELY APPLICABLE.

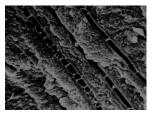
How it works.

Desensitises:

GLUMA Desensitizer is the only desensitizer proven to penetrate exposed dentinal tubuli up to 200 μ m¹. The result is the formation of multiple layers of protein septa that prevent intertubular fluid movements due to osmotic changes. Inhibits bacteria:

GLUMA Desensitizer provides a hermetic seal that acts as a microbial barrier, inhibiting bacterial growth. Re-wet:

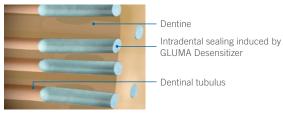
GLUMA Desensitizer resurrects collapsed collagenous fibres, improving the bond strength of many adhesives.



SEM magnification of a single

Gluma-induced septum in

dentinal tube.



Schematic representation of effect.

SEM of GLUMA Desensitizerinduced septa in dentinal tubuli.

Indications

For the reduction or elimination of pain caused by hypersensitivity in exposed cervical areas that do not require restorations, and of dentine sensitivity after preparation of teeth to receive fixed prosthesis or restorations.

Specific use for doctors and hygienists

${\tt Doctor/Assistant-Under\ every\ restoration}$

Use GLUMA Desensitizer below every restoration – direct and indirect – to ensure your patients the comfort they deserve.

- Below crowns
- Bridge
- Inlays and onlays
- Veneers and temporaries
- Margins around temporary crowns
- Below all direct restorations

With the confidence of GLUMA Desensitizer, your patients will appreciate the fast, effective and long-term results for a more

Dental hygienist – Spot desensitise

- comfortable prophy.
- Cervical erosions
- Exposed dentine surface
- Tooth hypersensitivity caused by gingival recession

Application guide GLUMA Desensitizer



PAIN INFLUENCES THE QUALITY OF LIFE — BECAUSE IT AFFECTS THE WHOLE ORGANISM, THE BODY AND ALSO EMOTIONS AND BEHAVIOUR.

For many patients, the topic of pain plays a central role when visiting the dentist. Your treatment success is measured, among other factors, by how effective the anaesthesia is. Our long-standing expertise in this field gives you the sense of confidence you need in your daily work. We offer you products you can rely on – because we developed them based on a wealth of experience.

3 Pain Control		22-35	
3.1	Infiltration and Nerve Block Anaesthesia Sopira Syringes	26 26	
3.2	Intraligamentary Anaesthesia Sopira Citoject Syringes	27–28 27	
3.3	Infiltration and Nerve Block Anaesthesia SeleKt+ Dental Needles	32–33 32	
3.4	Intraligamentary Anaesthesia SeleKt+ Dental Needles	34–35 34	

KULZER.COM



SOPIRA® – YOUR LOCAL ANAESTHESIA SUPPLIER.

Each day at your surgery, your success is measured on the basis of the professional and personalised treatment of your patients – and whether or not your anaesthesia is effective. For this reason, you need a system on which you can always rely. Our SOPIRA brand stands for a reliable, all-in-one local anaesthesia solution. By choosing SOPIRA, you will be able to accommodate all the necessary indications. There's no easier way. Our long-standing expertise in this field also gives you the sense of confidence you need for the treatment.



SOPIRA® Your local anaesthesia supplier.

Giving a hand to oral health.



3.1 INFILTRATION AND NERVE BLOCK ANAESTHESIA

SOPIRA CARPULE

SOPIRA® CARPULE® SYRINGES — PRECISION FOR INFILTRATION AND NERVE BLOCK ANAESTHESIA.

The solid SOPIRA Carpule Syringe can be used in a variety of ways and offers you tried-and-tested stability as well as dependable handling – whether for infiltration or nerve block anaesthesia, whether in the maxilla or mandible.

Your benefits at a glance

- Cylinder cartridge Syringe for nerve block and infiltration anaesthesia.
- Double-ring design for secure handling.
- Sterilisable.
- Available as a non-aspirating Syringe, for example for application of ointments and pastes or aspirating Syringe with double ring detent for active aspiration.

Indication

- infiltrative
- intraseptal
- mandibular

Available as ASPIRATING and NON-ASPIRATING models



PRODUCT OUTLINE

SOPIRA CARPULE

Non-Aspirating Syringe

Content 1 x 1.8 ml/metric Art. code 6511 1760

Aspirating Syringe



Aspirating Syringe

Content			
1 x 1.8 ml/inch			
Art. code		6600 2422	
Ę	SOPIRA® Carpon Winga Agenta States and and and States and and and States and and and and States and and and and and and States and	0 RAZER	

3.2 INTRALIGAMENTARY ANAESTHESIA

SOPIRA

SOPIRA CITOJECT

SOPIRA® CITOJECT® SYRINGES-

IT'S A GOOD FEELING TO KNOW YOU OFFER OPTIMISED CARE.

SOPIRA Citoject Syringe for intraligamentary anaesthesia injections with pinpoint precision.

SOPIRA Citoject makes intraligamentary injections even easier for you and more comfortable for your patients – an outstanding innovative design available in stainless steel or light alloy.

It's a good feeling to know you offer optimised care:

- Balanced weight distribution for stable handling and precision.
- The integrated plastic sleeve offers added safety.
- The stainless steel models can be thoroughly cleaned and sterilised along with all other stainless steel instruments used in your surgery.
- The ultimate in quality and durability thanks to a one-year warranty for Citoject products.
- Unparalleled control for injection: just 0.06 ml of anaesthetic at the press of the lever.
- Available in stainless steel or light alloy, with straight or angled headpiece, and for 1.8 ml or 2.2 ml glass cartridges.

Choose from our range of different sets or put together your own, custom model in combination with our accessories.

Indication

Intraligamentary anaesthesia.



3.2 INTRALIGAMENTARY ANAESTHESIA

SOPIRA CITOJECT

PRODUCT OUTLINE

Product	Content	Art. code		
SOPIRA CITOJECT ASSORTMENT LIGHT ALLOY INCL. ACCESSORIES				
SOPIRA Citoject Set	SOPIRA Citoject Syringe set, pointed plunger, 1.8 ml/metric	6542 9094		
SOPIRA Citoject Set	SOPIRA Citoject Syringe set, flat plunger, 1.8 ml/metric	6600 5326		
SOPIRA Citoject Set	SOPIRA Citoject Syringe set, flat plunger, 1.8 ml/inch	6600 2392		
SOPIRA Citoject Set	SOPIRA Citoject Syringe set, flat plunger, 2.2 ml/inch	6600 2395		
Headpiece	1.8 ml/metric barrel angled	6542 9051		
Headpiece	1.8 ml/metric barrel straight	6542 9108		
Headpiece	1.8 ml/inch barrel angled	6600 2394		
Headpiece	1.8 ml/inch barrel straight	6600 2393		
Headpiece	2.2 ml/inch barrel angled	6600 2397		
Headpiece	2.2 ml/inch barrel straight	6600 2396		
Handpiece	Handpiece complete	6603 8606		
SOPIRA CITOJECT ASSORTMENT STAINLESS STEEL INCL. ACCESSORIES				
SOPIRA Citoject Set	1 SOPIRA Citoject Syringe set, pointed plunger, 1.8 ml/metric	6600 9001		
Head piece	1.8 ml/metric barrel angled	6600 9002		
Handpiece	Handpiece complete	6603 8606		
OTHERS				
Plungers	1.8 ml pointed plunger	6603 8610		
Plungers	1.8 ml flat plunger	6603 8672		
Plungers	2.2 ml pointed plunger	6603 8673		
Plastic sleeves	1.8 ml plastic sleeve	6600 5419		
Plastic sleeves	2.2 ml plastic sleeve	6600 6866		



28

SOPIRA®

New. Even better. Coming from the inventors of the original Carpule dental needles.



in Materials, Cements & Luting Materials, Impression Materials, Impression Materials, Adhesives, Filling Materials, Cements & Luting Materials, Cements & Luting

SeleKt+[®] More quality. More comfort. Selected for you.

Giving a hand to oral health.

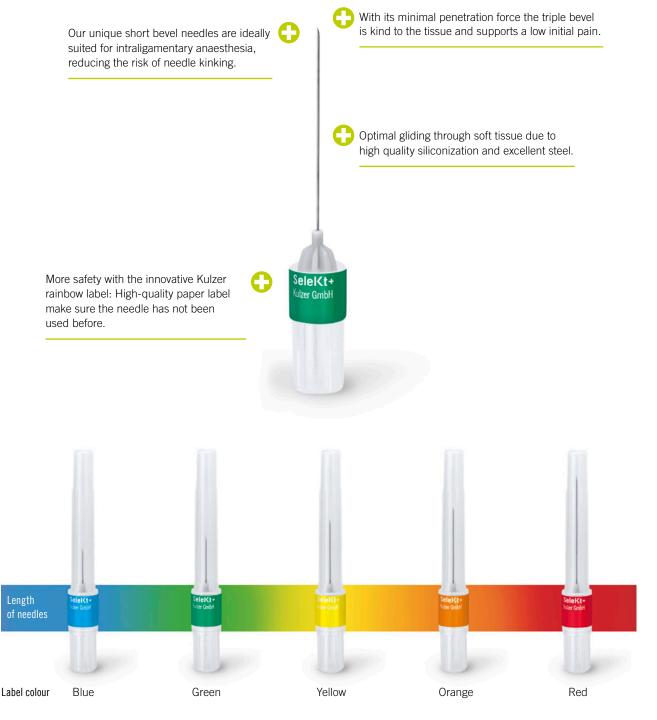


3.3 INFILTRATION AND NERVE BLOCK ANAESTHESIA

SELEKT+ DENTAL NEEDLES

SELEKT+[®] DENTAL NEEDLES — THE RIGHT NEEDLE FOR ANY INDICATION.

SeleKt your advantages:



Our rainbow coloured coding system makes identification of different needle lengths quick and simple.

32

PRODUCT OUTLINE

Product	Injection part length		Rainbow label colour	
SeleKt+ needle metric 27G; 0.4x16mm	16 mm	0.4 mm	• green	6606 6215
SeleKt+ needle metric 30G; 0.3x21mm	21 mm	0.3 mm	 yellow 	6606 6216
SeleKt+ needle metric 30G; 0.3x25mm	25 mm	0.3 mm	orange	6606 6217
SeleKt+ needle metric 27G; 0.4x35mm	35 mm	0.4 mm	• red	6606 6218
SeleKt+ needle inch 27G; 0.4x16mm	16 mm	0.4 mm	• green	6606 6226
SeleKt+ needle inch 30G; 0.3x21 mm	21 mm	0.3 mm	 yellow 	6606 6227
SeleKt+ needle inch 30G; 0.3x25mm	25 mm	0.3 mm	orange	6606 6228
SeleKt+ needle inch 27G; 0.4x35mm	35 mm	0.4 mm	• red	6606 6229



3.4 INTRALIGAMENTARY ANAESTHESIA

SELEKT+® DENTAL NEEDLES

SELEKT+® DENTAL NEEDLES FOR INTRALIGAMENTARY ANAESTHESIA – EVERYTHING YOU NEED FOR A PRIMARY METHOD.

Intraligamentary anaesthesia (ILA) offers patients a very comfortable alternative. This method covers the anaesthesia requirement across many indications. By injecting the active ingredient directly into the periodontal ligament, it is possible to achieve an immediate and complete anaesthetisation of the single tooth.

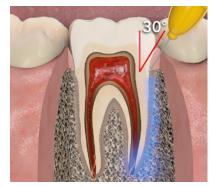
The pain of injection is minimised and the cardiovascular system is also spared unnecessary stress. The SOPIRA Citoject Syringes and short bevel SeleKt+ Dental Needles match each other perfectly.

Intraligamentary anaesthesia allows you to treat teeth in different quadrants in one sitting. The required quantity of anaesthetic is significantly reduced and patients feel no numbness in the lips, tongue and cheeks.

Reap all of the benefits of intraligamentary anaesthesia with our all-in-one solution and the one-of-a-kind concept for dental injection needles. They unite all the benefits of the Carpule needles – and the short bevel makes the injection even gentler.

Experience the ease of a gentle injection – your benefits at a glance:

- Needles with extra-short bevel, preventing the needle tip from bending in the desmodontal space and reducing the risk of injury
- Less initial pain due to the triple-bevel cut
- Silicone coating ensures optimal penetration of tissue



Intraligamentary injection: injection angle 10-30°



SeleKt+[®] Dental Needles: long bevel (left), short bevel (right)

PRODUCT OUTLINE

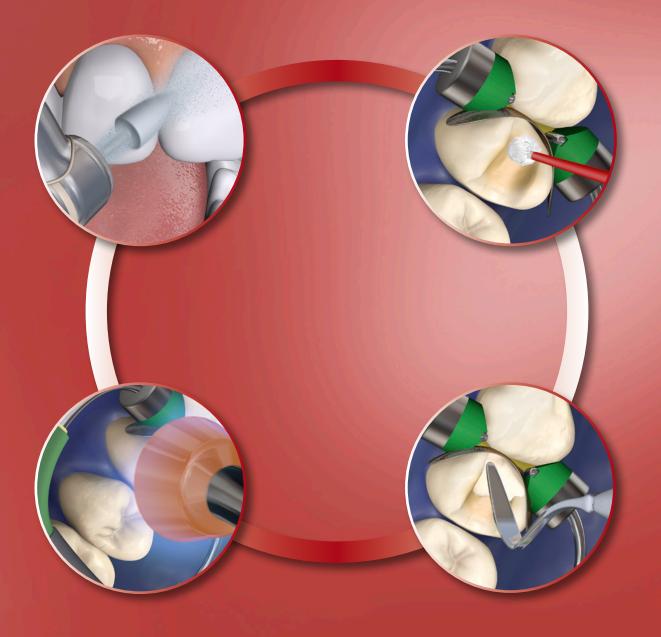
Product	Injection part length		Rainbow label colour	Art. code
SeleKt+ Dental Needle metric 30G; 0.3x12mm	12 mm	0.3 mm	 blue 	6606 6214
SOPIRA® Carpule Needles with inch thread				
SeleKt+ Dental Needle inch 30G; 0.3x12mm	12 mm	0.3 mm	• blue	6606 6224

SelelKt≎

SYSTEMATIC TOOTH PRESERVATION – WITH A GREAT DEAL OF EXPERIENCE.

The natural tooth is always better than any dental prosthesis. That's why it's worth fighting for. In tooth preservation, we support you with products you can always rely on. And always meet your patients' aesthetic demands. From innovative filling materials and excellent adhesive systems, up to the appropriate accessories – we offer you everything that you need for high quality, durable restorations with perfect aesthetics. See for yourself.

4	Restorative Materials	40-49
4.1	Filling Materials	40-49
	Charisma Diamond	40
	Charisma Topaz	42
	Charisma Classic	44
	Charisma Smart	46
	Charisma Opal Flow	48
	Charisma Flow	49
	Durafill VS	50
4.2	Adhesives	52-59
	GLUMA Bond Universal	54
	GLUMA Self Etch	56
	GLUMA 2Bond	57
	GLUMA Bond5	58
	GLUMA Etch	59
4.3	Accessories & LED Curing Lights	60-69
	Translux 2Wave	62
	Translux Wave	63
	Charisma EasyShine	64
	Diamond Burs	65
	Ivory Rubber Dam & Clamps	68



4

OUR STANDARD FOR YOUR RESTORATIONS: TOP AESTHETICS AND DURABILITY.

The composites from Kulzer stand for aesthetic, natural and durable restorations. Because you are measured by these results. Beautiful, impeccable teeth are the basis upon which appearances are judged by many patients. That is why we provide you with composites from which you can choose according to your personal preference and the indication.

We have the right composite for you for every situation. After all, our products are based on decades of knowledge and experience in development.

Charisma® Discover the next dimension of natural beauty

Giving a hand to oral health.



4.1 FILLING MATERIALS

CHARISMA DIAMOND

CHARISMA® DIAMOND — DISCOVER THE NEXT DIMENSION OF NATURAL BEAUTY.

The nano-hybrid composite Charisma Diamond expands the boundaries of aesthetics, quality and performance. Thanks to the innovative formula it provides all the exceptional properties you expect from such an aesthetic state-of-the-art composite.

The Charisma Diamond chemistry:

A patented matrix and the developed nano-hybrid filler system result in improved aesthetics, durability and handling. This means minimum shrinkage and shrinkage stress, very smooth surface, high resilience and optimised surface hardness.

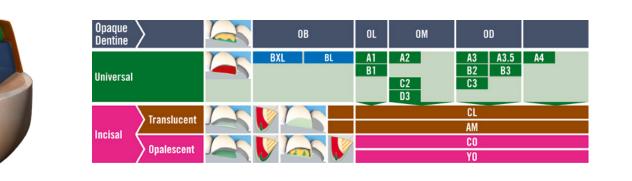
The Charisma Diamond versatility:

Charisma Diamond adapts to the colour of the surrounding tooth structure for an outstandingly natural look. What's more, the Charisma Diamond layering technique is a distinct aesthetic advantage and ensures virtually undetectable restorative margins. You easily achieve very good results with single shade technique for simple cases and excellent results using the multi-layer technique.

The Charisma Diamond workability:

Charisma Diamond offers minimal stickiness and improved efficiency during sculpting. It also provides an extended working time even if illuminated by operating light. Ultra-fine filler particles create a polish that is comparable to natural enamel.





Opaque dentine shade
 Universal shade

Incisal - translucent Incisal - opalescent

PRODUCT OUTLINE

CHARISMA DIAMOND SYRINGE KITS

Syringe Intro Kit

Content

1 x 4 g Syringe each of the shades: A2, A3, OM Intro Shade Guide



Syringe Basic Kit

Content

1 x 4 g Syringe each of the shades: 2 x A2, A3, A3.5, OM, OD



Syringe Master Kit + GLUMA 2Bond

Content

10 x 4 g Syringe each of the shades: A2, A3, A4, A3.5, B2, C2, OM, OD, CL, BL 1 x 4 ml Bottle of GLUMA 2Bond, 2 x 2.5 ml Syringe of GLUMA Etch 35 Gel, Shade Guide, Accessories



CHARISMA DIAMOND SYRINGE REFILLS

1 x 4 g Syringe	EEU Art. codes
Shades	Art. code
Universal shades	
A1	6604 3882
A2	6604 3883
A3	6604 3884
A3.5	6604 3885
A4	6604 3886
B1	6604 3887
B2	6604 3888
B3	6604 3889
C2	6604 3890
С3	6604 3891
D3	6604 3892
Opaque shades	
OL	6604 3893
OM	6604 3894
OD	6604 3895
Incisal shades	
CL	6604 3899
AM	6604 3900
СО	6604 3901
YO	6604 3902
Bleach shades	
BL	6604 3896
BXL	6604 3897
OB	6604 3898

CHARISMA DIAMOND Shade Guide

2-Layer Shade Guide

Content	
Charisma Dia	amond Shade Guide
Art. code	6604 4554
	Binning own

4.1 FILLING MATERIALS

CHARISMA® TOPAZ

CHARISMA® TOPAZ — INNOVATIVE CHEMISTRY FOR DAY-TO-DAY NATURAL RESTORATIONS.

The Charisma brand is trusted all over the world for its easy handling, high quality and reliability in restorations. That is why incorporating the most successful features of Charisma composites in one product just seemed logical to us. The result is Charisma Topaz, a light-curing, radiopaque nano-hybrid composite based on the patented TCD-matrix. This innovative formula combined with the approved easy Charisma handling works as the foundation for down-to-earth restorations of natural beauty.

Charisma Topaz is the three-in-one composite solution:

- Easy handling: Charisma Topaz offers a creamy, yet stable consistency with an extended working-time and a high, long-lasting gloss after polishing.
- Superior physical properties: Charisma Topaz now features our patented TCD matrix, which combines high flexural strength and minimal shrinkage. In addition, it is compatible to all commonly used bonding materials and techniques.
- Versatile layering: Apply easy single-shade layering or multi-shade layering techniques for your more complex cases. You always get durable natural restorations.

Easy handling Superior physic,
 properties

Versatile lavering

PRODUCT OUTLINE

CHARISMA TOPAZ Syringe Kits

Syringe Basic Kit + GLUMA Bond Universal

Content				
1 x 4 g Syringe each of the shades:				
A2; A3; A3.5; B2; CL; OM				
1 x 4 ml Bottle of				
GLUMA Bond Universal;				
1 x 2.5 ml Syringe of				
GLUMA Etch 35 Gel;				
Layering Guide,				
Accessories				

Accessories Art. code



6606 7179

Syringe Master Kit + GLUMA Bond Universal

Content 1 x 4 g Syringe each of the shades: A1; A2; A3; A3.5; B2; C2; CL; OL; OM; OD 1 x 4 ml Bottle of GLUMA Bond Universal; 1 x 2.5 ml Syringe of GLUMA Etch 35 Gel; Shade Guide, Layering Guide, Accessories



6606 7180

Art. code

CHARISMA TOPAZ Syringe Refills

1 x 4 g Syringe

Shades	Art. code
Universal shades	
A1	6606 7163
A2	6606 7164
A3	6606 7165
A3.5	6606 7166
A4	6606 7167
B1	6606 7168
B2	6606 7169
B3	6606 7170
C2	6606 7171
Opaque shades	
OL	6606 7172
OM	6606 7173
OD	6606 7174
Incisal shades	
CL	6606 7175
СО	6606 7176
Bleach shades	
BL	6606 7177
OB	6606 7178

CHARISMA TOPAZ Shade guide

2-Layer Shade Guide

Content Charisma Topaz Shade Guide Art. code 6606 7181



4.1 FILLING MATERIALS

CHARISMA CLASSIC

CHARISMA® CLASSIC — EXPERIENCE X RESEARCH = MICROGLASS® II EFFECT.

Charisma Classic is the very first composite to offer the second generation of Microglass filler technology. We developed this new and enhanced technology in close cooperation with practitioners worldwide to meet your requirements for composite workability and natural brilliance. Single-shade layering techniques have never been this easy.

Microglass II effect -

What you see is what you get! As all refractive indices of our matrix and filler system have been optimally aligned, the new filler technology offers an intrinsic shade brilliance and increased colour adaption of up to 56%. For you that means:

- Easy single-shade layering techniques and more natural restorations.
- Convenient shade selection and matching.
- Easier masking of discolorations.

Easy handling -

Due to its creamy consistency Charisma Classic allows easy and fast modeling. And it comes with excellent finishing and polishing properties that facilitate a high surface lustre. In addition, the easy shade range permits a convenient shade selection and matching. Where else do you meet high quality and reliability standards with such ease?



PRODUCT OUTLINE

CHARISMA CLASSIC KITS

Syringe Combi Kit 6 x 4 g + GLUMA 2Bond

Content

2 x 4 g Syringe each of the shades: A2, A3 $1 \ {\rm x} \ 4 \ {\rm g}$ Syringe each of the shades: A1, A3.5 1 x 4 ml Bottle of GLUMA 2Bond 2 x 2.5 ml Syringe of GLUMA Etch 35 Gel Pictorial Card Accessories

CHARISMA CLASSIC ASSORTMENTS

Syringe Assortment 4 x 4 g

Content			
1 x 4 g Syringe each of the shades: A1, A2, A3, OA2 Shade Guide			
Art. code 6605 6110			
c	HARISMA Jasei Winga Aksotrinent 4 x 4g Winga Aksotrinent 4 x 4g Winga Aksotrinent 4 x 4g		



Syringe Combi Kit 8 x 4 g + GLUMA 2Bond

Content

1 x 4 g Syringe each of the shades: A1, A2, A3, A3.5, B2, C2, OA2, OA3 1 x 4 ml Bottle of GLUMA 2Bond 2 x 2.5 ml Syringe of GLUMA Etch 35 Gel Shade Guide Accessories

6605 6108 Art. code CHARISM/ 1000

Syringe Assortment 8 x 4 g

Content
2 x 4 g Syringe each of the shades: A2, A3
1 x 4 g Syringe each of the shades: A1, A3.5, B2, OA2





CHARISMA CLASSIC SYRINGE REFILLS

1	v	Δ	a	Svringo
т.	х	4	ĸ	Syringe

Shades	Art. code
Universal shades	
A1	6605 6076
A2	6605 6077
A3	6605 6078
A3.5	6605 6079
A4	6605 6080
B1	6605 6101
B2	6605 6102
В3	6605 6103
C2	6605 6104
Opaque shades	
OA2	6605 6105
0A3	6605 6106
0A3.5	6605 6107

CHARISMA CLASSIC SHADE GUIDE

Shade Guide

Content				
Charisma	Classic Shade Guide			
Art. code 6605 6113				
	CHARISMA' Classic			
	O KULZER			

4.1 FILLING MATERIALS

CHARISMA SMART

CHARISMA® SMART — NATURAL RESTORATIONS? EASILY!

Charisma Smart provides the smart way towards natural everyday restorations. It is an uncomplicated universal composite for everyday restorations with great value. We developed this light-curing, radiopaque filling material to cover your requirements for composite workability.

Your new everyday composite rewards you with great value

- You benefit from its colour-stabilizing technology and easy polishability: These features prevent staining of composite restorations in the long run and thus ensure natural results with little effort. On top, they bring convincing ease to your workflow.
- You feel comfortable with its easy handling characteristics and vital shades: The composite facilitates simple single-shade layering techniques for natural everyday restorations with great value. Its excellent handling and modelling properties arise from our long-standing experience in composite technology. In short, Charisma Smart provides the smart way towards natural everyday restorations.

Charisma Smart comes, of course, with the quality and reliability that arise from our long-term experience in composite technology. It's just smart to benefit from the great value of Charisma Smart.



PRODUCT OUTLINE

CHARISMA SMART KITS

Syringe Combi Kit 8x4g + GLUMA 2Bond

Content 2 x 4 g Syringe each of the shades: A2; A3 1 x 4 g Syringe each of the shades A1; A3.5; B2; Dentine 1 x 4 ml Bottle of GLUMA 2Bond 2 x 2.5 ml Syringe of GLUMA Etch 35 Gel, Accessories





Syringe Combi Kit 4x4g + GLUMA Bond5

Content

1 x 4 g Syringe each of the shades A1; A2; A3; B2 1 x 4 ml Bottle of GLUMA Bond5 1 x 2.5 ml Syringe of GLUMA Etch 35 Gel Accessories



CHARISMA SMART ASSORTMENT

Syringe Assortment 6x4g

Content	
2 x 4 g Syr A2; A3	inge each of the shades:
1 x 4 g Syr A1, A3.5	inge each of the shades
Art. code	6606 0441



CHARISMA SMART SYRINGE REFILLS

1	X	4	g	Syringe
---	---	---	---	---------

Shades	Art. code
A1	6606 0392
A2	6606 0393
A3	6606 0394
A3.5	6606 0395
B1	6606 0396
B2	6606 0397
Dentine	6606 0398

4.1 FILLING MATERIALS

CHARISMA OPAL FLOW

CHARISMA® OPAL FLOW — DISCOVER THE SIMPLICITY OF NATURAL RESTORATIONS.

Charisma Opal Flow is the ideal completion of the Charisma-brand. Because of its very good controllable viscosity the minimal invasive tasks will be even more uncomplicated.

Charisma Opal Flow stands for diagnosis-safe radiopacity and easy handling. With this addition to either Charisma Diamond or Charisma Opal you get everything you need for durable and safe restorations.

- Excellent handling properties: Charisma Opal Flow creates a uniform, smooth surface in areas of the cavity that are difficult to access. The flowable composite is applied in a non-dripping Syringe and retains its shape and position following application.
- Naturally perfect, durable restorations: Charisma Opal Flow shows low shrinkage and high flexural strength for naturally perfect, durable restorations. The compact shade system with its 7 colours can be combined with all commercially available acrylate based composites.
- Safe diagnosis: The composite filling is easily distinguished from the residual tooth structure due to its excellent radiopaque properties. Charisma Opal Flow ensures an optimal, reliable diagnosis.

Indications

- Enlarged fissure sealing.
- Cavity lining as the first layer for class I and II.
- Class V fillings.
- Minimally invasive class I and II fillings in areas which are not in direct occlusal stress.
- Minimally invasive class III fillings.
- Small repairs of direct and indirect restorations combined with a suitable bonding agent.





• Splinting of mobile teeth.

PRODUCT OUTLINE

CHARISMA OPAL FLOW Syringe refills

1 x 1.8 g Syringe

Shades	Art. code
A1	6604 0900
A2	6604 0951
A3	6604 0952
A4	6604 0953
B2	6604 0954
OM (Opaque Medium)	6604 0955
Baseliner	6604 0956



CHARISMA OPAL FLOW SYRINGE ASSORTMENT

Syringe Assortment



CHARISMA OPAL FLOW ACCESSORIES

Flow Cannulas

Content 1 x 100 Pieces Flow Cannulas

Art. code





CHARISMA® FLOW – NATURALLY RELIABLE.

Charisma Flow is the ideal flowable supplement to our microhybrid composite Charisma Classic. Its low viscosity and good thixotropy makes it the ideal choice for many indications like cavity lining, fissure sealing and minimal invasive fillings. The Charisma Flow Baseliner is a white and opaque shade that can be applied on the cavity floor to mark the transition to the natural hard tooth tissue. This means that unnecessary drilling away of healthy hard tooth tissue when removing an insufficient filling can be avoided.

Charisma Flow stands for safe usage and a high standard of naturally reliable restorations

- Versatile all-rounder for many indications.
- Easy and fast handling due to its low viscosity and good thixotropy.
- Its radiopacity enables a save and reliable diagnosis.
- Pronounced chameleon effect.
- Shades of Charisma Flow optimally match the Charisma Classic shades.

Indications:

- Fissure sealing.
- Enlarged fissure sealing.
- Class V fillings.
- Minimally invasive Class I and II fillings in areas not subjected to masticatory forces.
- Minimally invasive Class III fillings.
- Smaller contour and shade adjustment on the enamel and dentine.
- Small surface repairs to direct and indirect restorations in combination with a suitable bonding agent.
- Splinting of teeth.
- Cavity lining.
- Bracket retention.

PRODUCT OUTLINE

CHARISMA FLOW Syringes

1 x 1.8 g Syringe

Shades	Art. code
A1	6601 5495
A2	6601 5496
A3	6601 5497
A3.5	6601 5498
B2	6601 5499
ВЗ	6601 5500
OA2	6601 5501
OA4	6601 5502
Baseliner	6601 5504



CHARISMA FLOW SYRINGE ASSORTMENT

Syringe Assortment

Content	
0	Syringe each A1, A2, A3, Baseliner
	6601 5501
Art. code	6601 5521
CH	ARISMA



CHARISMA FLOW Accessories

Flow Cannulas

Content

Art. code

CHARISMA

Syringe Assortment

1 x 100 Pieces Flow Cannulas

6600 2613



C KULZER

4.1 FILLING MATERIALS

DURAFILL VS

DURAFILL® VS — TIMELESS BEAUTY.

Durafill VS is a proven, light-curing microfiller composite for aesthetic anterior restoration.

Its perfect polishability, its distinctive colour brilliance with vivid gloss and the highly aesthetic results, especially in the anterior region, make Durafill VS into a perennial:

It has been successfully used in dental practices for over 30 years. The favourable processing properties, as well as the cosmetic and functionally convincing treatment successes, are appreciated by dentists and patients alike.

Your benefits at a glance

- Finest surface gloss due to perfect polishing properties.
- Exceptional shade brilliance with natural light refraction and vivid lustre.
- Excellent shade match with the surrounding tooth hard substance after polymerization.
- Easy to model, especially for the restoration of incisal edges due to the particular soft consistency.



PRODUCT OUTLINE

DURAFILL VS SYRINGE REFILLS

1 x 4 g Syringe

Shades	Art. code
A1	6600 0008
A2	6600 0009
A3	6600 0010
A3.5	6600 0011
A4	6600 0012
B1	6600 0013
B2	6600 0014
B3	6600 0015
C1	6600 0016
C2	6600 0017
СЗ	6600 0018
C4	6600 0019

Shades	Art. code
D3	6600 0020
OA2	6600 0021
0A3	6600 0022
0A3.5	6600 0023
SL (Super Light)	6600 0025
SSL (Super Snow Light)	6600 2499
l (Incisal)	6600 0026

DURAFILL VS SHADE GUIDE

	Shade Guide	
de	Art. code	6600 0046
20		
21		

CHARISMA®

4

PUT YOUR TRUST IN DEPENDABLE ADHESIVE STRENGTH – AND IN OUR EXPERIENCE.

Your patients expect efficiency and reliability from you every day. These are precisely the qualities you expect from an adhesive.

Based on our many years of expertise in the development of bonding agents, providing you with the materials you need to bond direct and indirect restorations.

Simple, safe and scientifically proven. The dependable adhesive strength and convincing margin quality of our products gives you the confidence you need every day in your surgery.





GLUMA® Strong bonding for life.

Giving a hand to oral health.



4.2 ADHESIVES

GLUMA BOND UNIVERSAL

GLUMA® BOND UNIVERSAL — THE ALL-IN-ONE DROP.

Based on our long-term bonding expertise, we developed GLUMA Bond Universal – a universal bonding answering to all your bonding needs. It is a reliable and highly effective adhesive that ensures successful long-term restorations.

GLUMA Bond Universal is effective owing to its easy handling properties and the reliable bond strength. Our unique moisture control system containing MDP makes the air-drying just as easy and provides a homogeneous bonding layer. Thanks to our exclusive drop control you can be sure to apply just as much adhesive as you need. With GLUMA Bond Universal, you bond efficiently and economically and you are sure to have created the required precondition for a long-lasting restoration.

You just need one bottle!

... for all techniques

With GLUMA Bond Universal, you are free to choose your bonding technique. Whether you prefer the total-etch-, selective etch or self-etch-method – you always get reliable bond strength.

... for all dental materials

GLUMA Bond Universal is compatible with all kinds of dental materials – light-, self- or dual-cure materials, resin cements, corebuild-up materials, self-cure/dual-cure composites and compomers for the cementation of indirect restorations – without the need of a dual cure activator. Furthermore, repair restorations with zirconia, precious and non-precious alloys and composites can be carried out quickly and easily in only one layer.

... for a broad range of indications and intraoral repairs

- One bottle provides the adhesive for indications of direct and indirect restorations and for intraoral repairs of chippings and fractures.
- Bonding of direct restorations for all cavity classes (Black) using light-curing, dual-curing or self-curing methacrylate-based composites / compomers.
- Bonding of light-curing, dual-curing or self-curing core build-up materials.
- Sealing of hypersensitive tooth areas.
- Sealing of cavities prior to amalgam restorations.
- Bonding of fissure sealants.
- Sealing of cavities and core preparations prior to temporary cementation of indirect restorations (according to the immediate dentine sealing technique).
- Cementation of indirect restorations with light-curing, dual-curing or self-curing adhesive resin cements.
- Intraoral repair of composite and compomer restorations, porcelain fused to metal, metal and all-ceramic restorations.

When you can find the universality of bonding in one bottle, there's just no point in choosing anything else.

GLUMA® Ceramic Primer

For bonding and repairing silicate ceramics, you apply GLUMA Ceramic Primer for reliable bond strength.



54

PRODUCT OUTLINE

REFILLS

Bottle Refill

Content

1 x 4 ml Bottle of GLUMA Bond Universal Pictorial Card

6606 1421 Art. code

Gluma

VALUE PACKS

Bottle Value Pack

Content 3 x 4 ml Bottles of GLUMA Bond Universal Pictorial Card



PROFESSIONAL KITS

Bottle Professional Kit

Content	
1 x 4 ml Bo GLUMA Ce 1 x 2.5 ml 1 x 25 App	nd Universal ottle of ramic Primer Syringe GLUMA Etch 35 ilication Tips green (slim) ilication Tips red (regular) nulas
Pictorial Ca	ard
Art. code	6606 1423

GLUMA CERAMIC PRIMER

Content		
1 x 4 ml Bo GLUMA Ce	ottle of ramic Primer	
Art. code		6606 1425



ACCESSORIES

Accessories

Content	
2 x 50 Applicator Tips in size slim and regular	
Art. code	6606 4661

6606 4661

4.2 ADHESIVES

GLUMA SELF ETCH

GLUMA[®] SELF ETCH — ONE STEP AHEAD.

Based on our long-term bonding expertise, we developed the self-adhesive system GLUMA Self Etch. This all-in-one bonding agent etches, primes, bonds, and desensitizes in one single step. Thus it meets your everyday requirements and demonstrates all characteristics which are important for an uncomplicated and state-of-the-art bonding agent.

With GLUMA Self Etch you benefit from:

- One Step-reliability: The reliability and qualities of GLUMA Self Etch is proven by many studies and test results. The innovative formula of GLUMA Self Etch support the excellent bond strength and supreme marginal sealing. And it allows treatments even in hypersensitive areas.
- One Step-effectiveness: GLUMA Self Etch allows you to apply just one layer for etching, priming, bonding plus desensitizing.
 GLUMA Self Etch system is immediately effective.
 Being a ready-to-use one step adhesive, no prior mixing, no shaking, no etching, no fridge storage is necessary.
- **One Step-safety:** The chemistry of GLUMA Self Etch allows you to have maximum error avoiding application, even treating hyperactive patients. Just one application step avoids unexpected treatment failures



PRODUCT OUTLINE

BOTTLE REFILL

Bottle Refill

Content

Art. code

1 x 4 ml Bottle of GLUMA Self Etch 50 Applicator Tips 1 x 1 Mixing Well Pictorial Card

6604 6246



BOTTLE VALUE PACK

Bottle Value Pack

Content	
3 x 4 ml Bo Pictorial Ca	ottle of GLUMA Self Etch ard
Art. code	6604 6247

ACCESSORIES

Accessories

Content	
2 x 50 Applicator Tips	

in size slim and regular

Art. code 6606 4661



4.2 ADHESIVES

GLUMA 2BOND

GLUMA® 2BOND – ADHESIVE CONVENIENCE.

Based on our long-term bonding expertise, we developed the Etch & Rinse adhesive system GLUMA 2Bond. It meets your everyday requirements for uncomplicated and state-of-the-art bonding. GLUMA 2Bond produces excellent adhesion to the enamel and the dentine, as well as an optimal marginal sealing. Furthermore it provides a desensitizing effect for sensitive patients or desensitization of hypersensitve areas.

Gluma®

Bottle Assortment

2Bond

With GLUMA 2Bond, you benefit from:

- More efficiency: Due to the special formula, GLUMA 2Bond necessitates only one layer for priming, bonding and desensitizing.
- More security: GLUMA 2Bond provides excellent bond strength and ideal marginal sealing due to the innovative chemistry.
- More reliability: Numerous studies and tests have proven the bonding qualities of GLUMA 2Bond.
- More convenience: GLUMA 2Bond is a ready-to-use, one-bottle system. Simple application without prior mixing or shaking.

With GLUMA 2Bond, patients benefit from:

- Less irritation: The desensitizing effect reduces post-operative sensitivity.
- Less preparation time: GLUMA 2Bond is immediately effective.

6604 0972

• Less sensitivity: GLUMA 2Bond can be used to seal hypersensitive areas of the teeth.

PRODUCT OUTLINE

REFILLS

Bottle Refill

Content

- 1 x 4 ml Bottle of GLUMA 2Bond
- 1 x 50 Applicator Tips
- 1 x 1 Mixing Well
- Pictorial Card

Art. code

Bottle Value Pack

VALUE PACKS

Content

3 x 4 ml Bottle of GLUMA 2Bond Pictorial Card



ASSORTMENT

GLUMA

Bottle Refil

Bottle Assortment

Content
1 x 4 ml Bottle of GLUMA 2Bond 1 x 50 Applicator Tips 1 x 1 Mixing Well Pictorial Card 2 x 2.5 ml Syringe of GLUMA Etch 35 1 x 25 Cannulas





AUCEUUU

Accessories	
Content	
2 x 50 Applicator Tips in size slim and regular	
Art. code	6606 4661



GLUMA

2Bond

Bottle Value Pa

KULZE

4.2 ADHESIVES

GLUMA BOND5

GLUMA® BOND5 — TWO STEPS, ONE BOTTLE, NO PREPARATION TIME.

Based on our long-term bonding expertise, we developed the 5th generation etch&rinse one-bottle adhesive GLUMA Bond5. Produced to meet your everyday requirements for uncomplicated bonding, it exhibits excellent shear bond strength and ensures successful long-term restorations. GLUMA Bond5 produces excellent adhesion to the enamel and the dentine, as well as an optimal marginal sealing.

With GLUMA Bond5, you benefit from:

- Easy and safe handling and excellent performance.
- Only one layer for priming and bonding.
- High shear bond strength.
- Superior taking without dripping.

GLUMA Bond5 was developed for your comfort – in handling, performance and storage. It forms a homogeneous hybrid layer for safe sealing and high bond strength, especially on enamel. No shaking is needed before the application. GLUMA Bond5 can be stored at room temperature and is usable directly out of the bottle, without preparation time.

GLUMA Bond5 is ideally suited for:

- Adhesive fixing of direct composites, Polyglas[®] and compomer restorations.
- Adhesive fixing of indirect laboratory-fabricated ceramic, Polyglas[®] and composite restorations (inlays, onlays, veneers and crowns).

In GLUMA Bond5 you find the prerequisites for the stable and satisfying fixing of your restorations.

PRODUCT OUTLINE

BOTTLE REFILL

Bottle Refill

		Accessones	
Content		Content	
1 x 4 ml B	ottle of GLUMA® Bond5	2 x 50 Ap	
Art. code	6605 7341	in size slir	
		Art. code	

ACCESSORIES

Accessories Content 2 x 50 Applicator Tips in size slim and regular

6606 4661



Gluma

4.2 ADHESIVES

GLUMA ETCH

GLUMA[®] ETCH — SAFE ETCHING.

GLUMA Etch Gel is an etching agent based on orthophosphoric acid. It is used to etch enamel and condition dentine in the context of adhesive filling therapy.

Your benefits at a glance

- Clean and easy application.
- Reliable identification thanks to the colour of the gel.

GLUMA Etch Gel is used for enamel etching and enamel/dentine etching using the total etch technique prior to the adhesive bonding of:

- composite and compomer restorations
- laboratory-fabricated, indirect restorations (e.g., inlays, crowns, bridges, veneers)
- sealants.



PRODUCT OUTLINE

2 x 2.5 ml Syringe of GLUMA Etch

6600 0130

SYRINGE REFILL

Syringe Refill

ACCESSORIES

Accessories		
Content		
2 x 50 Etcl	hing Cannulas	
Art. code		6600 2614

Content

Art. code

25 Cannulas

RESTORATIVE MATERIALS ACCESSORIES & LED CURING LIGHTS

4

YOUR ONE-STOP SHOPPING REQUIREMENTS – FOR TOOTH PRESERVATION TOO:

We look to you when it comes to developing our products. Because your needs set our standards. This not only applies for materials you work with on a daily basis. It also applies to supplementary materials and accessories with which we accompany your treatment processes and which facilitate your work. For even more sparkling results and even more efficient working. After all, your patients only get the best from you. And that is also what they deserve.

60

Translux® Wave Safe and effective polymerisation.

0 880

Giving a hand to oral health.



Translux® Wave

61

4.3 ACCESSORIES & LED CURING LIGHTS

TRANSLUX 2WAVE

TRANSLUX[®] 2WAVE — MADE TO PERFORM.

Translux 2Wave, the light-weight cordless LED curing light with a 360° rotatable light beam, offers maximum freedom of movement and technical novelties. We developed its features to perform for your benefit:

Easy and convenient handling

- Maximum freedom of movement and minimized hand fatigue thanks to the light weight of only 150 g and the cordless pen-style design.
- The light guide, having a high angle of 70° and being 360° rotatable, makes the molar region easily accessible.
- Due to the LED display and simple controls handling becomes intuitive.
- The scratch-resistant surface is quickly and easily disinfected.

A reliable performance

- The built-in radiometer enables you to check the performance of the curing light.
- The Translux 2Wave has strong, long-lasting Li-ion batteries that need only very little time for recharging.

Safe curing

- The Translux 2Wave features a steady high-intensity output and a homogenous light beam that are ideal for curing all common light-curing composites and adhesives.
- The broad spectral output with two wavelength ranges enables you to cover new and innovative photoinitiators as well as common camphor-quinone initiators.

PRODUCT OUTLINE

TRANSLUX 2WAVE

Order Information	Art. code
Hand piece, 8 mm light guide, glare shield, charging unit, power supply	6605 5013

Accessoires	Art. code
Light guide, 8 mm, 70°	6605 7365
Rechargeable battery	6605 7363
Glare shield, orange	6601 6455
Replacement contacts for charger	6605 7366
Hand Piece incl. battery	6605 7371
Charging unit white	6605 7372
Power supply	6605 7468
Protective Eyewear UV orange	6605 8474



Technical data	
Power Density	1200–1400mW/cm ² (Cure Rite)
Wavelength	385–510 nm (broad)
Dimensions charging unit	L140xW60xH60 mm
Dimensions hand piece	L210 mm, Ø 23 mm
Weight	Charging unit 440g Hand piece: 150g
Power Supply (charging unit)	100 to 240 V(AC), 50/60 Hz, 12–18 VA
Power Supply (hand piece)	Rechargeable Lithium-ion battery 3.6 V/2000 mAh
Light Source	High-luminosity quad-die LED
Light guide	Ø8mm, 70°

4.3 ACCESSORIES & LED CURING LIGHTS

TRANSLUX WAVE

TRANSLUX[®] WAVE — FOR SAFE, SUSTAINABLE POLYMERISATION.

Translux Wave is a LED curing light for the polymerisation of dental materials such as adhesives and composites.

It is developed to consistently produce high-quality fillings with an optimum polymerisation depth in the 440–480 nm wavelength range.

Benefits at a glance

- **Pen-style body:** The light-weight and ergonomic pen-style design enables an effortless handling even for small hands. Furthermore, the advanced angle of the 360° rotatable light guide allows a better access to the molar regions.
- One-button operation: One convenient power/program button to choose easily between 10 and 20 seconds. LED lights indicate the program change.
- Cordless design: The cordless design gives you maximum freedom of movement.
- **Reliable performance:** Translux Wave comes with a strong and long life Li-ion battery. It requires very little time to recharge and the battery can be exchanged quickly and easily without tools. The built-in radiometer ensures the performance you need for the perfect restoration.

Translux Wave is a state-of-the-art LED curing light to deliver an optimum polymerisation for all commercially available camphor quinone based dental materials.

PRODUCT OUTLINE

TRANSLUX WAVE

Order Information	Art. code
Handpiece, 8 mm light guide, glare shield, charging unit, power supply	6605 5012

Accessoires	Art. code
Light guide, 8 mm, 70°	6605 7365
Rechargeable battery	6605 7363
Glare shield, orange	6601 6455
Replacement contacts for charger	6605 7382
Hand Piece incl. battery	6605 7383
Charging unit grey	6605 7384
Power supply	6605 7468
Protective Eyewear UV orange	6605 8474



Technical data	
Power Density	>1,200 mW/cm² (Cure Rite)
Wavelength	440–480 nm (narrow)
Dimensions charging unit	L140xW60xH60 mm
Dimensions hand piece	L210 mm, Ø 23 mm
Weight	Charging unit 437g, Hand piece: 145g
Power Supply (charging unit)	100 to 240 V(AC), 50/60 Hz, 5 W, 12-18 VA
Power Supply (hand piece)	Rechargeable Lithium-ion battery 3.6 V/2000 mAh
Light Source	High-luminosity mono-die LED
Light guide	Ø8mm, 70°

4.3 ACCESSORIES & LED CURING LIGHTS

CHARISMA EASYSHINE

CHARISMA[®] EASYSHINE — HIGH LUSTRE IN ONE SINGLE STEP.

It's fast and easy. It needs only one step. It's what you need to finish your composite restorations with perfect polishing results. Come and meet the new member to the Charisma family: Charisma EasyShine polishers.

- Excellent results: The diamond enhanced formula delivers excellent longlasting polishing results through a pressure controlled polishing process. Highly polished tooth surfaces prevent plaque accumulation and reduce the risk of secondary caries for long-lasting natural restorations.
- **One-step polishing system:** Smoothing and high-lustre polishing in one step are possible by adapting the applied pressure. There is no need to change instruments, which saves time and brings less technique sensitivity.
- Universally applicable: The three available shapes (Flame, Large Flame and Cup) cover all intra-oral applications. They are compatible with all kinds of composites and are ideally suited for Charisma composites from Kulzer.
- Durable and reusable: All polishers are suitable for sterilisation and therefore reusable.
 Enjoy the benefits of Charisma EasyShine polishers. They offer the fast and easy way towards perfect polishing results. They are the economic solution to finish off your Charisma restorations.



PRODUCT OUTLINE

CHARISMA EASYSHINE KIT

Polishing Kit

Content

1 x 2 Charisma EasyShine Polishers of each shape

6606 0002

Art. code

CHARISMA EASYSHINE REFILLS

Refill – Flame

Content 1 x 12 Charisma EasyShine Polishers of shape Flame

6606 0003

6606 0004

Art. code

Refill – Large Flame

Content 1 x 12 Charisma EasyShine Polishers

of shape Large Flame

Art. code

Refill – Cup

Content

1 x 12 Charisma EasyShine Polishers of shape Cup

rt. code	6606 0005	

4.3 ACCESSORIES & LED CURING LIGHTS

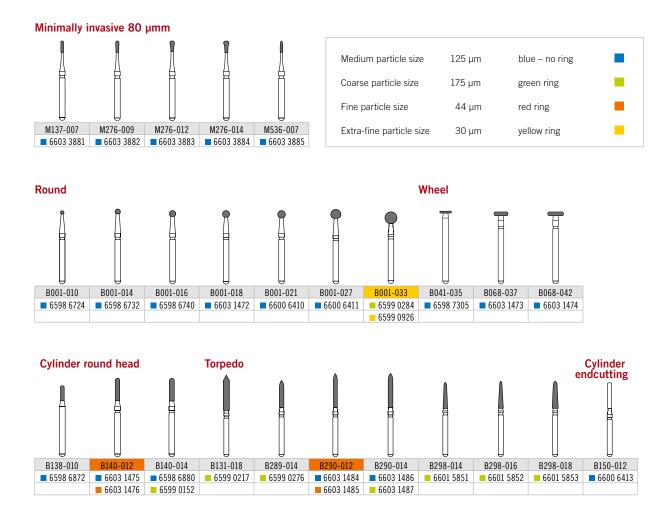
DIAMOND BURS

DIAMOND INSTRUMENTS – VALUE FOR MONEY.

Our quality diamond instruments are characterized by a homogenous, perfectly embedded diamond coating for precise preparation and extended service life. The high grade tempered stainless steel shanks reduce the risk of breakage. Our burs run vibration-free and concentric and by this preserve the service life of your turbine handpieces. Rounded working parts allow for modern tooth preparation without sharp edges.

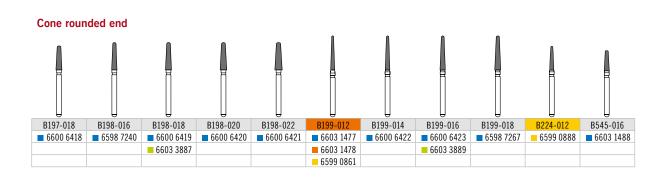
Rondomant Gold Double Layer Instruments are our top of the line selection. Due to their special coating they offer superior abrasive efficiency and extended service life.

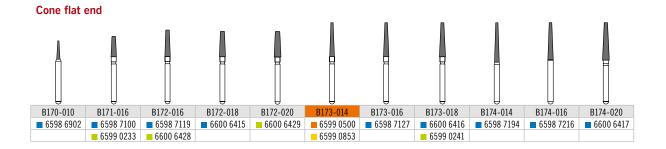
For conservative, minimally invasive cavity preparation we offer our Micro Burs.

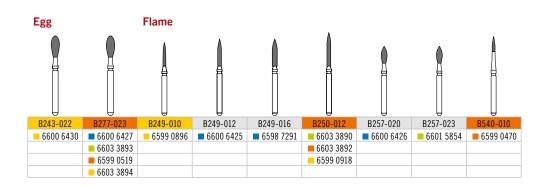


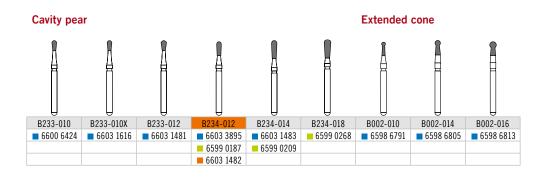
4.3 ACCESSORIES & LED CURING LIGHTS

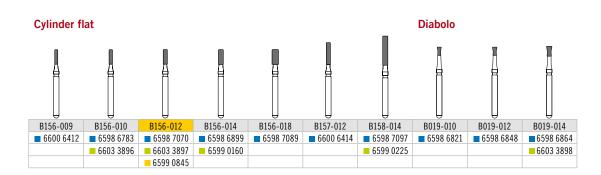
DIAMOND BURS

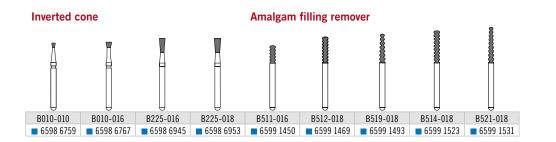












RONDOMANT GOLD – MULTI-LAYERED





4.3 ACCESSORIES & LED CURING LIGHTS

IVORY RUBBER DAMS & CLAMPS

IVORY — THE COMPLETE SYSTEM FOR TOOTH ISOLATION.

We recommend Ivory Rubber Dams for absolute isolation of the treatment area. We provide Ivory Rubber Dam Clamps in a variety of sizes and shapes. With the Ivory all-in-one system, you will master practically every application, ranging from routine to challenging treatments.

Ivory Rubber Dams

The lvory rubber dam is manufactured from natural latex and undergoes a special washing step during the manufacturing process to reduce surface proteins. Ivory Rubber Dam has extremely high tear strength, reducing waste from tearing during application. The Rubber Dam is thin and pliable, allowing easy placement in especially difficult areas.

Ivory Rubber Dam Clamps

We produce the lvory rubber dam clamps in various sizes and shapes. Each lvory clamp is die-cut, heat treated, tempered and individually hand-set to ensure high performance. This is how we guarantee the high performance of the stainless steel clamps and confident fixation of the rubber dam.

Ivory Punch

This precision instrument is made from high quality stainless steel. The unique floating plunger strikes all edges of the cutting disc evenly, guaranteeing a perfect, tear-resistant hole every time. The cutting disc rotates through a range of 6 hole sizes, providing the correct opening for the smallest anterior tooth to the largest molar.

Ivory Forceps

The lvory forceps are made from high grade stainless steel to ensure many years of use. The forceps will reach around the bow of any clamp without tilting, which is especially important when reversing a clamp. The straight head design allows easy gripping and placement of any clamp size.

The most popular stainless steel clamps.

- Available in a multitude of sizes and shapes.
- Die-cut, heat-treated, tempered and individually hand-set to ensure high performance.
- Also available in wingless.



PRODUCT OUTLINE

IVORY® ASSORTMENT



Rubber Dam Kits	
Complete Rubber Dam Kit (Punch,	5005 7966
Forceps, Rubber Dam, Frame,	
8 Clamp Starter Kit and Template)	
Rubber Dam Clamp Starter Kit	5005 7968
(8 Clamps: 0, 2, 2A, 7, 8A, 9, 14, 14A)	

Ivory Clamps	
Winged Clamps	
Stainless Steel Clamp No. 00	5005 7302
Stainless Steel Clamp No. 0	5005 7304
Stainless Steel Clamp No. 1	5005 7306
Stainless Steel Clamp No. 1A	5005 7308
Stainless Steel Clamp No. 2	5005 7310
Stainless Steel Clamp No. 2A	5005 7312
Stainless Steel Clamp No. 3	5005 7322
Stainless Steel Clamp No. 4	5005 7324
Stainless Steel Clamp No. 5	5005 7326
Stainless Steel Clamp No. 7	5005 7328
Stainless Steel Clamp No. 7A	5005 7330
Stainless Steel Clamp No. 8	5005 7334
Stainless Steel Clamp No. 8A	5005 7336
Stainless Steel Clamp No. 10	5005 7338
Stainless Steel Clamp No. 11	5005 7342
Stainless Steel Clamp No. 12A	5005 7348
Stainless Steel Clamp No. 13A	5005 7352
Stainless Steel Clamp No. 14	5005 7354
Stainless Steel Clamp No. 14A	5005 7356
Stainless Steel Clamp No. 26	5005 7370
Stainless Steel Clamp No. 27	5005 7372
Stainless Steel Clamp No. 56	5005 7374
Anterior Clamps	
Stainless Steel Clamp No. 6	5005 7382
Stainless Steel Clamp No. 9	5005 7384
Stainless Steel Clamp No. 212	5005 7392
Tiger Clamps	
Stainless Steel Clamp No. 1T	5005 7841
Stainless Steel Clamp No. 2T	5005 7843
Stainless Steel Clamp No. 2AT	5005 7847
Stainless Steel Clamp No. 9T	5005 7855
Stainless Steel Clamp No. 14T	5005 7849
Stainless Steel Clamp No. 56T	5005 7853

Wingless Clamps	
Stainless Steel Clamp No. WO	5005 7504
Stainless Steel Clamp No. W1	5005 7506
Stainless Steel Clamp No. W2	5005 7510
Stainless Steel Clamp No. W2A	5005 7512
Stainless Steel Clamp No. W3	5005 7522
Stainless Steel Clamp No. W4	5005 7524
Stainless Steel Clamp No. W5	5005 7526
Stainless Steel Clamp No. W7	5005 7528
Stainless Steel Clamp No. W8	5005 7534
Stainless Steel Clamp No. W8A	5005 7536
Stainless Steel Clamp No. W14	5005 7554
Stainless Steel Clamp No. W14A	5005 7556
Stainless Steel Clamp No. W56	5005 7568
Stainless Steel Clamp No. 26N	5005 7728
Stainless Steel Clamp No. 27N	5005 7730
Stainless Steel Clamp No. 28N	5005 7732

Ivory Rubber Dam	
Blue 6' x 6" 36 Sheets	4000 0267
Green 5' x 5" 52 Sheets	4000 0280
Green 6' x 6" 36 Sheets	4000 0282

Ivory Accessories		
Rubber dam Punch and Forceps		
Rubber Dam Forceps	5005 7220	
Rubber Dam Punch	5005 7225	
Rubber dam Frames		
Adult Frame (6 in)	5005 7230	
Pedo. Frame (5 in)	5005 7229	
Rubber dam template		
Template 6" x 6"	5005 7235	

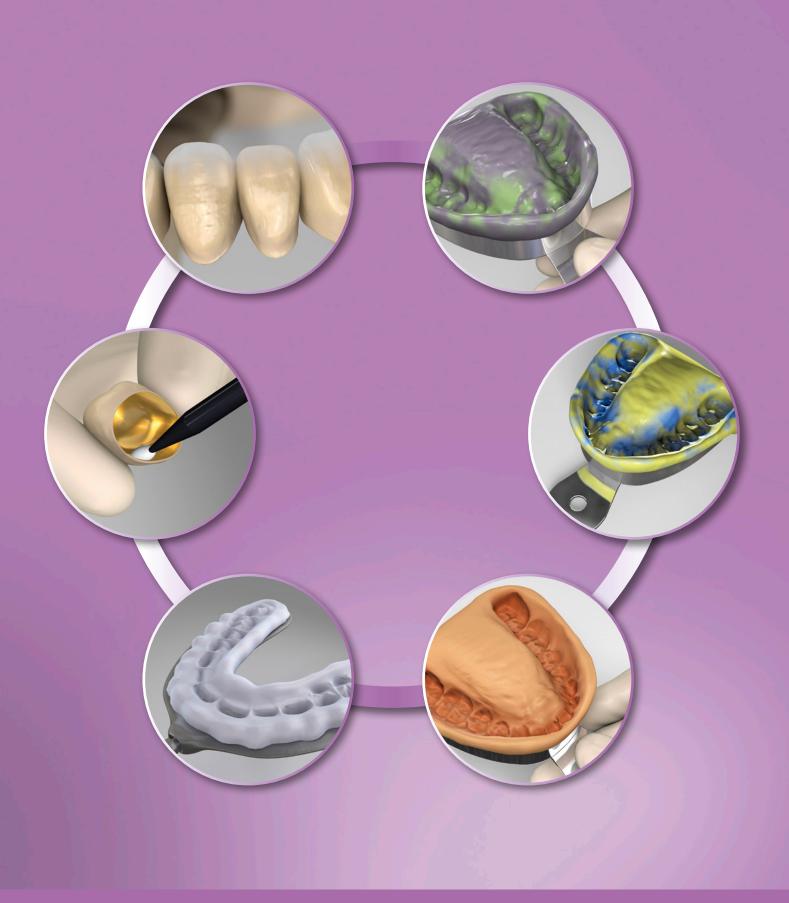
FOR EVERY APPLICATION THE PERFECT SOLUTION.

There's a system behind our precision in prosthetics.

Precision and safe handling of materials decide the results in your prosthetic work. Besides addition-curing and condensation-curing silicones, our comprehensive product portfolio also includes alginates and bite registration materials. Our mixing device promote the efficiency of your treatment workflows and simply make your work easier. We also meet your requirements with our high-performance materials for temporary restorations or luting of indirect restorations.

5	Prosthetics	70–113
	A-silicone VPS Precision Impression Materials Variotime	74–77 74
5.2	C-silicone Impression Materials Optosil & Xantopren	80—85 80
5.3	Alginate & Alginate Substitute Impression Materials ALGINoplast xantALGIN xantasil	88–91 88 88 90
5.4	Bite Registration & Special Indications Variotime Bite MEMOSIL 2	94 – 95 94 95
5.5	Prosthetics Equipment Dynamix speed Accessories Impression Material	<mark>98-101</mark> 98 100
5.6	Cements & Luting Materials iCEM Self Adhesive Carboxylate Cement Phosphate Cement	104–107 104 106 107
5.7	Temporary Materials PreVISION Cem Dentalon plus	108–113 110 112





PROSTHETICS A-SILICONE VPS PRECISION IMPRESSION MATERIALS

HERE YOUR EXPECTATIONS WILL BE MET.

5

You want aesthetic, perfectly fitting restorations without corrections. We want you to be satisfied with the results of your work at all times. The common denominator – our VPS precision impression materials. This represents an important step towards perfect restorations.

And you profit comprehensively from our experience. Because we always have your safety in mind in product development and we attach importance to your patients' comfort. Just like you. See for yourself.

Variotime® Freedom to impress.

Giving a hand to oral health.



5.1 A-SILICONE VPS PRECISION IMPRESSION MATERIALS

VARIOTIME

VARIOTIME® FREEDOM TO IMPRESS.

Variotime combines outstanding performance and features with more than 25 years of Kulzer experience in VPS precision impression materials.

It comes with a variable time concept which provides more leeway with starting the setting time. Because we want you to know the splendid feeling of freedom and reliability.

Think vario – Freedom can be this simple

- Straightforward, adaptable handling: You get one material with variable applications for single crowns as well as multi-unit prosthetic restorations.
- Automatic mixing: With the Dynamix speed system you benefit from high-speed mixing and precise dispensing, also for Putty viscosities.
- **Convenient, time-saving working:** You gain more leeway with starting the setting time. With Variotime you have a variable working time, ranging from 1:00 2:30 minutes, and an always short intraoral setting time of 2:30 minutes.

Variotime controls the polymerisation kinetics by mouth temperature and sets rapidly after insertion into the mouth.

The Variotime assortment is a well thought-out, coordinated all-round system for all impression techniques. Apart from being beneficial to your time line.



74

PRODUCT OUTLINE

VARIOTIME DYNAMIX CARTRIDGE REFILLS

Putty Refill

Content			
2 x 380 ml Dynamix Putty 1 x 2 Dynamix Mixing Tips 1 x 1 Dynamix Fixation Ring			
Art. code 6604 4995			



Heavy Tray Refill

Art.

С	or	ite	ent						
2	Х	3	80	ml	Dy	nam	iх	Heavy	Tray
1	Х	2	Dy	nar	nix	Mixi	ing	g Tips	

1 x 1 Dynamix Fixation Ring



Monophase Refill

Content
2 x 380 ml Dynamix Monophase
1 x 2 Dynamix Mixing Tips
1 x 1 Dynamix Fixation Ring



5.1 A-SILICONE VPS PRECISION IMPRESSION MATERIALS

VARIOTIME

PRODUCT OUTLINE

VARIOTIME DYNAMIX 50 ml Automix Cartridge Refills

Heavy Tray Refill

Content		
2 x 50 ml 1 x 5 Mixir	Heavy Tray ng Tips green	
Art. code	6604 4998	

Light Flow Refill

Content				
2 x 50 ml Light Flow 1 x 10 Mixing Tips yellow				
Art. code	6604 5038			
	Ariotime" Jan Erow Extrage Refil Marine			

VARIOTIME DYNAMIX HANDMIX TRIAL KIT

Easy Putty + Flow Trial Kit

Content				
1 x 600 ml Easy Putty (each 300 ml Base & Cat.) 1 x 50 ml Light Flow 1 x 5 Mixing Tips yellow 1 x 5 Intraoral Tips 1 x 1 Universal Adhesive (10 ml)				



Monophase Refill

Content

2 x 50 ml Monophase

1 x 5 Mixing Tips green

Art. code





Medium Flow Refill

Content

2 x 50 ml Medium Flow

1 x 10 Mixing Tips yellow







Extra Light Flow Refill

Content

2 x 50 ml Extra Light Flow 1 x 10 Mixing Tips yellow

Art. code



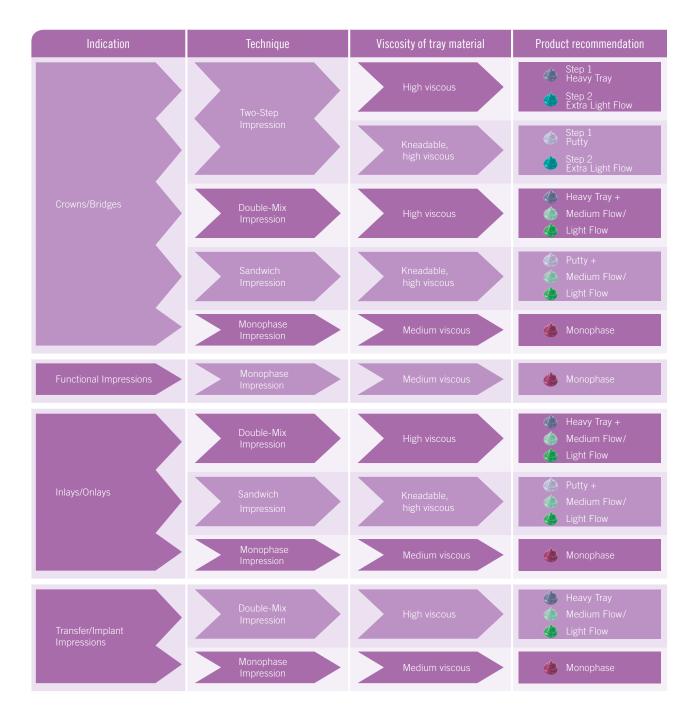
VARIOTIME DYNAMIX HANDMIX REFILL

Easy Putty Refill

Content 1 x 600 ml Easy Putty (each 300 ml Base & Cat.)

Art. code 6604 4993





5

SPECIFIC RESPONSES TO YOUR REQUIREMENTS.

Diverse requirements? No problem with the right material. C-silicones offer broad variation options for processing.

They are easy to handle and excel with high precision and sound economy. Our C-silicones have long set standards in precision impressions and they are the reliable all-rounder for daily use in your surgery.





Optosil® & Xantopren® Proven by the test of time.

Giving a hand to oral health.



5.2 C-SILICONE IMPRESSION MATERIALS

OPTOSIL®/XANTOPREN® COMFORT SYSTEM

OPTOSIL®/XANTOPREN® COMFORT SYSTEM - proven by the test of time.

The go-to silicone solution for over 50 years.

Optosil/Xantopren has provided a proven solution since 1965, early on setting the standard for C-silicone impressions. The product range includes three individual versions – each tailored to the exacting demands of professional users, and enabling precise and durable reproduction of detail.

All advantages in one system.

The Optosil/Xantopren Comfort System is a further development of the classic Optosil/Xantopren System.

- Exact reproduction of detail because of Hydrocontrol. That means perfect wetting properties and controlled application even in a moist environment.
- Easy application using the practical 4:1 cartridge dispensing system (for Xantopren Comfort Light/Medium)
- High dimensional stability of Optosil Comfort Putty for reproducible results even when pouring after 7 days*

* (In-vitro-Study by Prof. Dr. Wöstmann, Justus Liebig University, Giessen, Germany)



PRODUCT OUTLINE

OPTOSIL COMFORT Handmix tin Refills

Putty

Putty

Content

1 x 450 ml

Art. code

Content	
4 x 900 ml Tins	
(= ca. 4 x 1 kg)	

Art. code 6601 0202



XANTOPREN COMFORT 50 ml automix cartridge refills

Medium

Content				
3 x (2 x 50 ml Xantopren Comfort Medium, 1 x 12 Mixing Tips yellow 4:1)				
Art. code	6600 0786			
Abdument of the second se				

Light

6604 5682

Content 3 x (2 x 50 ml Xantopren Comfort Light, 1 x 12 Mixing Tips yellow 4:1)





6600 0785

ACCESSORIES

Activator Universal Plus

Content			
3 7447			



Activator Universal Plus

Content				
Optosil/Xantopren 1 x 25 ml Liquid (Bottle)				
Art. code 6603 7448				



5.2 C-SILICONE IMPRESSION MATERIALS

OPTOSIL/XANTOPREN

OPTOSIL[®] / XANTOPREN[®] – PROVEN BY THE TEST OF TIME.

Optosil P Plus and Xantopren are reliable for daily use in the dental practice.

- Reliable for daily use in the dental practice
- Matched system of classical putty and low viscosity materials
- Enable precise reproduction of details



PRODUCT OUTLINE

OPTOSIL HANDMIX REFILLS

P plus Content 4 x 900 ml Tins (= approx. 4 x 1.38 kg) Art. code 6600 3720 Α

ACCESSORIES

Activator Universal Plus

Content		
Optosil/Xantopren 1 x 60 ml Paste (Tube)		
Art. code		6603 7443
Activator Universit Pro-		
Activator Un Content	iversal Plus	
Content Optosil/Xar		20
Content Optosil/Xar	topren	6603 7445

XANTOPREN REFILLS TUBES

	H green high viscosity	
	Content	
	4 x 140 ml Tubes, incl. 2 Mixing Pads	
443	Art. code	6600 7340
	Xantapen' Mantapen' Mantapen' Mantapen' Mantapen' Mantapen' Mantapen'	
	L blue low viscosity	
	Content	
	4 x 140 ml Tubes, incl. 2 Mixing Pads	
445	Art. code	6600 3721
	VL plus very low viscosi	tv
		,
	Content	
	4 x 140 ml Tubes, incl. Mixing Cup	
	Art. code	6600 3996



5.2 C-SILICONE IMPRESSION MATERIALS

XANTOPREN FUNCTION

XANTOPREN[®] FUNCTION — THE PERFECT SYSTEM FOR IMPRESSIONS OF EDENTULOUS ARCHES.

Xantopren Function is very well suited to functional impressions of edentulous arches. The working times can be selected individually. Both materials can be disinfected and are comfortable to use.

Indications

Kneadable impression material for functional impressions of edentulous arches

- Open mouth impression (passive impression).
- Closed mouth impression (active impression).

Benefits

- Special consistency for fine muscle movement.
- Individually adjustable processing times.
- Neutral odour and taste.
- Disinfectable.

PRODUCT OUTLINE

XANTOPREN FUNCTION

Assortment

Content

1 x 450 ml Xantopren Function Tub (Paste) 1 x 7 ml Bottle each of hardener component (red + yellow)

Dosing Tray and Mixing Block



XANTOPREN FUNCTION Combi Pack

Combi Pack

Content

1 x 7 ml Bottle each of hardener components (red + yellow)



Note: You can also obtain tubes from your dental distributor in single packs of 1 x 140 ml tubes!

5.2 C-SILICONE IMPRESSION MATERIALS

XANTOPREN M MUCOSA

XANTOPREN[®] M MUCOSA — THE PERFECT SYSTEM FOR IMPRESSIONS OF EDENTULOUS ARCHES.

Xantopren M mucosa was developed specifically for impressions of sensitive mucosa.

Indication

Medium viscosity impression material for mucosa impressions.

Benefits

- Thixotropic, i.e. flowable under pressure, stable after release of pressure.
- Does not flow in the pharynx area.
- Individually adjustable working times.
- Disinfectable.

PRODUCT OUTLINE

XANTOPREN M MUCOSA



TWO MATERIAL GROUPS FOR ANATOMICAL IMPRESSIONS.

Anatomical models serve numerous diagnostic and therapeutic purposes in the dental surgery. The precondition for producing a suitable anatomical model is an accurately dimensioned impression.

We offer you two material groups for anatomical impressions – besides alginates, also alginate substitute.

The high dimensional and storage stability of the alginate substitute facilitates pouring the impression several times and even after a delay. Mixing occurs easily, safely and quickly in an automatic mixing device.

5

ALGINoplast[®]



ALGINoplast[®] & xantALGIN[®] Grown from nature, processed with experience.

Giving a hand to oral health.



KULZER

500 g

5.3 ALGINATE & ALGINATE SUBSTITUTE IMPRESSION MATERIALS

ALGINOPLAST/XANTALGIN

ALGINOPLAST[®] / XANTALGIN[®] — GROWN FROM NATURE, PROCESSED WITH EXPERIENCE

It shows a high level of accuracy, elasticity and tensile strength, and is also extremely well compatible with plaster. The dust free and clean mixing is easy and comfortable

We use high quality seaweed from preferred cultivation areas as a basis for our alginate impression material. These alginates last longer without preservatives. Since they do not contain any chemical disinfectants, they are skin and gingiva friendly. Their mild peppermint taste also makes the impression more pleasant for the patient. Alginoplast is best suited for documentation, analysis, planning, opposing bite and working model.

Alginoplast fulfils your requirements of modern materials for anatomic impression.

- Its stable consistency, offering detailed reproduction, is ideal for dentists who prefer a stable alginate with high stability.
- The fast setting variant saves time and is practical.
- The normal-setting variant is suitable for automatic mixing without time pressure during processing.

Xantalgin Select

- The creamy consistency is particularly good for sensitive patients.
- Thanks to its high elasticity and tensile strength, impressions can be removed easily, even if there was undercutting.
- The short setting time is pleasant and saves time.

Xantalgin Crono

- Xantalgin Crono shows each phase of the setting reaction through a colour change.
- Thanks to its optimised reaction mechanism, the impressions can be poured out up to 5 days later.



PRODUCT OUTLINE

ALGINOPLAST

Fast Set, Double economy pack		Regular Set, Double economy pack		Fast Set, Double economy pack	
Content		Content		Content	
2 x (20 x 500 g) in Foil Bag		2 x (20 x 500 g) in Foil Bag		2 x (20 x 500 g) in Foil Bag	
Art. code	6600 2444	Art. code	6601 5600	Art. code	6600 2443
		ALCIN-optical Pages Ext Handle For Handle Fo		XantALGIN"	

5.3 ALGINATE & ALGINATE SUBSTITUTE IMPRESSION MATERIALS

XANTASIL

XANTASIL® ALGINATE SUBSTITUTE – MOULDED FOR CONVENIENCE.

We have developed xantasil specifically for the requirements of your anatomical impressions. The addition-curing, elastomeric alginate substitute will give you robust impressions with long-term dimensional and storage stability every time.

Xantasil covers all anatomical impression indications for which traditional alginates would typically be used. It can be used as a substitute for traditional alginates for taking impressions of temporaries, orthodontic models, splints and impressions of opposing jaws.

Long-term dimensional stability

- More flexibility and convenience when pouring impressions no time pressure.
- Later pouring with no loss of accuracy.
- Multiple pouring of an impression.
- Better detail reproduction compared to traditional alginates.
- Can be stored for several weeks.

Automatic mixing

- Compatible with the Dynamix speed mixing device.
- Excellent void-free, homogeneous mix quality.
- Hygienic processing with no dust formation and cleaning.
- Saves time and effort due to the ready-to-use dosage form and the low number of work steps (compared to traditional alginates).
- Material savings only the required amount of material is dispensed.

6605 2101

PRODUCT OUTLINE

XANTASIL ASSORTMENT

Dynamix Fast Set

Content

Art. code

2 x 380 ml 1 x 2 Dynamix Mixing Tips, 1 x 1 Fixation Ring

Cartridge Refill Fast Set

Content
6 x 50 ml
xantasil Fast Set,
6 x 1 Mixing Tips green







xantasil



PROSTHETICS BITE REGISTRATION & SPECIAL INDICATIONS

THE PERFECT SOLUTION FOR EVERY REQUIREMENT.

No matter how precisely dental prosthetics are made. They also have to integrate in the three-dimensional spatial relationship between the maxilla and mandible. By determining the occlusion, our bite registration materials based on addition-curing silicones contribute to the fabrication of perfectly fitting dental prosthetics.

Their diverse uses in prosthetics, conservative dentistry, implantology and orthodontics are examples of their broad spectrum of applications – from the standard bite registration situation through to special indications.

Variotime[®] Bite Bite registration accurate to dimension.

Giving a hand to oral health.



Uariotime»

5.4 BITE REGISTRATION & SPECIAL INDICATIONS

VARIOTIME BITE

VARIOTIME BITE[®] — BITE REGISTRATION ACCURATE TO DIMENSION.

Variotime Bite is a scannable VPS bite registration material that features the easy, efficient and safe processing you know from our Variotime precision impression material.

It is one material, but it has multifunctional applications.

Benefits from the diversified features of Variotime Bite

- Extra hard: Its very high final hardness of Shore D 40 prevents undesirable shifts when you adjust the position of the casts in the articulator.
- **Extremely fast:** Variotime Bite offers a working time of 30 s and a fast intraoral setting time of only 30 s. That means convenient, yet time saving working for you and high comfort for your patients.
- Superb scannability: It also permits powder-free 3D-data recording of the antagonists for CAD/CAM technology.
- Distinct thixotrophy: The material avoids flowing off from the occlusal surface into the interdental spaces and enables easy removal from the mouth. It enables you to precisely capture the occlusal surface while saving material.
- Whipped cream-like consistency: Variotime Bite assures a resistance-free bite without distortion. That makes bite registration stress-free for you and your patients.
- = Easy to trim & grind: You will appreciate the convenient processing with its minimum risk of fracture.

PRODUCT OUTLINE

VARIOTIME BITE REFILL

50 ml Automix Cartridge Refill



5.4 BITE REGISTRATION & SPECIAL INDICATIONS

MEMOSIL 2

MEMOSIL® 2 – THE EXPERTS FOR BITE REGISTRATION AND SPECIAL INDICATIONS

MEMOSIL® 2 – the expert for special indications

MEMOSIL 2 is a transparent A-silicone for special indications. Its transparency allows optical control when positioning aids (e.g. X-ray pellets). Light-curing is possible for filling and fixative materials through placeholders with MEMOSIL 2. The material is best suited for use as an occlusal stamp for light-curing posterior composites, an anterior stamp for provisionals, fillings and veneers, a fixation material for x-ray measuring spheres when planning implants and a transfer matrix for bracket constructions on the plaster model.

With MEMOSIL 2, you and dental technicians benefit from:

- **Optical control:** MEMOSIL 2's transparency facilitates the positioning of aids. It also allows light curing of composites and fillings through the material.
- More hygiene: Processing of MEMOSIL 2 is clean and hygienic due to its direct and sterile application.

The automix cartridge system saves you time and reduces the risk of registration errors. MEMOSIL 2 also increases treatment comfort for your patients. Thanks to its short time in mouth and the neutral taste and odour, patients are more at ease. An additional benefit for you is the time saving, since it can be applied directly into the patient's mouth.

PRODUCT OUTLINE

MEMOSIL 2

50 ml Automix Cartridge Refill

Content 3 x (2 x 50 ml Memosil 2, 1 x 12 Mixing Tips green)

Art. code 6600 4969



5

WE GIVE YOU MORE TIME FOR WHAT IS ESSENTIAL.

We look to you when it comes to developing our products. Because your needs set our standards. This not only applies for the materials you use daily, but also for the equipment that makes processing easier or reduces your workload. So you can concentrate even more on what is essential. Your patients.



Dynamix[®] speed System Precision at the push of a button.

Giving a hand to oral health.



5.5 PROSTHETICS EQUIPMENT

DYNAMIX SPEED

DYNAMIX[®] SPEED — PRECISION AT THE PUSH OF A BUTTON.

When it comes to high-speed mixing, time-saving and simultaneously obtaining a consistent, void-free mixture, the decision is easily reached: Practical cartridges and the functional Dynamix speed mixer are perfectly matched in this well thought-out system featuring all the advantages of automatic mixing for impression materials.

Its efficiency lies in its speed.

- With Dynamix speed, mixing is especially fast and dosing very precise, also with putty materials.
- Dynamix speed is easy and safe to handle.
- You save time and material.
- You choose between three velocities including a high-speed option.

Reliable in quality and precision

- Homogeneous and void-free mixing leads to precisely fitting prosthetic restorations.
- The material properties are always reproducible.
- The mixing quality stays the same for consistent precise fitting and is user-independent.

Dynamix speed is compatible with all impression materials in Dynamix cartridges from Kulzer.





PRODUCT OUTLINE

DYNAMIX SPEED DEVICES

EU Standard

Content 1 x 1 Dynamix machine 230 V 1 x 1 EU power cord with schuko plug

6604 5779

6603 5999

6603 6078

6603 3825

Art. code

DYNAMIX SPEED Cartridge Accessories

Mixing Tips 5 x 50

Content

5 x (50 Dynamix Mixing Tips,

1 x 1 Dynamix Fixation Ring)

Art. code



Fixation Ring 10 x 2

10 x 2 Dynamix Fixation Rings

Art. code

Content



DYNAMIX ACCESSORIES

Wall Mount

Art. code

DYNAMIX SPEED POWER CORD

EU Power Cord 230 V			
Art. code	6603 4592		
UK Power Cord 2	30 V		
Content			
British 3-Pin			
Art. code	6603 4326		
CH Power Cord 230 V			
Art. code	6603 4327		

OZ Power Cord 230 V

Australian 3-Pin	
Art. code	6603 4328

DYNAMIX SPEED SPARE PART

Spare Part Cover NEW			
Art. code	6604 1021		
Spare Part F	Plunger Discs		
Art. code	6603 2128		
Spare Part F	use EU 230 V		
Art. code	6603 4329		
Spare Part E	Base plate new		
Art. code	6604 7093		
Spare Part E	Base Feet 4pcs		
Art. code	6603 5030		
Spare Part F	Rubber stamp		
Art. code	6603 5051		

5.5 PROSTHETICS EQUIPMENT

PRODUCT OUTLINE

DYNAMIX SPEED ADHESIVE

Universal Adhesive





6600 0781



DYNAMIX SPEED MIXING TIPS FOR 50 ml Automix Cartridge Systems

Mixing Tip green (1:1) Content 1 x 48 Mixing Tips for Variotime Heavy Tray Variotime Monophase Variotime Bite Memosil 2 xantasil Art. code 6600 1989



Mixing Tip yellow (1:1)

Content		
1 x 48 Mixing Tips for Variotime Extra Light Flow Variotime Light Flow Variotime Medium Flow		
Art. code	6600 1988	

CONSTRUCTION OF

Mixing Tip yellow (4:1)

Content 1 x 48 Mixing Tips for Xantopren Comfort Medium Xantopren Comfort Light



DYNAMIX SPEED INTRAORAL MIXING TIPS

Intraoral Tip white

Content

1 x 96 Tips for Mixing Tip green (1:1) for intraoral application of Variotime Monophase

Art. code	6568 7514



Intraoral Tip yellow

Content		
1 x 96 Tips for Mixing Tip yellow (1:1)		
for intraoral application of		
Varitime Extra Light Flow		
Variotime Light Flow		
Variotime Medium Flow		
Xantopren Comfort Medium		
Xantopren Comfort Light		
Art. code	6600 0782	
	-	



Bite Registration Tip

Content		
1 x 96 broad intraoral Tips for Variotime Bite		
Art. code	6600 0905	

PRODUCT OUTLINE

DYNAMIX SPEED CARTRIDGE ACCESSORIES



00000

Sterilizable metal Syringe for precise

application of impression materials

DYNAMIX SPEED MIXING AIDS

Universal Mixing Pad



Xantopren Mixing Cup



DYNAMIX SPEED MIXING AIDS

Alginate Mixing Spatula		
Content		
1 x 1 Alginate Mixing Spatula		
Art. code	6523 4072	

. .

Alginate Mixing Bowl

Content			
1 x 1 Alginate Mixing Bowl			
Art. code	6523 4064		

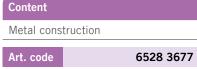
DYNAMIX SPEED IMPRESSION SYRINGES

Impression Jet

Content

Art. code

6603 6078





1 x 10 plastic Tips for Impression Jet Syringe





Xantopren Mixing Spatula



PERMANENT? TEMPORARY? THIS IS HOW INDIRECT RESTORATIONS LAST AS LONG AS THEY SHOULD.

We offer a range of cements for luting permanent and temporary indirect restorations. Self-adhesive composite resins – which we offer in recognised Kulzer quality – are increasingly used in modern dentistry. And for conventional techniques we provide you with our dependable and long established products for lining and cementing.



iCEM® Self Adhesive The easiest way of cementation.

EM

Giving a hand to oral health.



5.6 CEMENTS & LUTING MATERIALS

ICEM SELF ADHESIVE

ICEM® SELF ADHESIVE – THE EASIEST WAY OF CEMENTATION

iCEM Self Adhesive is a dual-curing all-in-one luting composite with dependable adhesive strength. It is applied easily, quickly and in a convenient way and reduces the risk of post-operative sensitivity. This means: etching, priming, bonding, desensitising and cementing of indirect restorations in one step.

One material - many advantages

- Etching, priming, bonding, desensitising and cementing in one step.
- Dependable adhesive strength for durable restorations.
- Reduction of post-operative hypersensitivities.
- Flexible working time.
- Wide range of indications.

With iCEM Self Adhesive you cement

- metal and metal-ceramic crowns and bridges.
- all-ceramic crowns and bridges produced using CEREC-systems.
- crowns and bridges using reinforced ceramics (e.g. zirconia).
- metal, ceramic and composite inlays and onlays.
- metal, titanium and glass fiber posts.
- nylon materials for splinting loose teeth.



PRODUCT OUTLINE

iCEM SELF ADHESIVE

Syringe Refill

Content

1 x 1 Automix Syringe x 5 ml (7 g) 1 x 15 Mixing Tips Pictorial Card





Syringe Value Pack

Content 1 x 3 Automix Syringe x 5 ml (7 g) 1 x 45 Mixing Tips



Mixing Tips Refill

Content

1 x 50 Mixing Tips



NOTES

5.6 CEMENTS & LUTING MATERIALS

CARBOXYLATE CEMENT

CARBOXYLATE CEMENT — CLINICALLY PROVEN.

Carboxylate cements show an excellent clinical performance. They are ideally suited for cementing permanent restorations and offer additional protection against thermal and chemical influences when used as lining cement.

Your benefits at a glance

- Wide range of application.
- Reliable protection against thermal and chemical influences.
- Cementation of crowns, bridges and inlays as well as cavity liner for permanent restorations.





PRODUCT OUTLINE

CARBOXYLATE CEMENT

Liquid		Powder	
Content		Content	
1 x 30 ml Bottle		1 x 90 g Glass	
Art. code	6599 4190	Art. code	6599 4204

5.6 CEMENTS & LUTING MATERIALS

PHOSPHATE CEMENT

PHOSPHATE CEMENT – THE CLASSICAL CEMENT.

Phosphate Cement is very suited for the cementation of permanent restorations and offers additional protection against thermal and chemical influences as cavity liner. The proven Phosphate Cement is available in two setting speeds and therefore adapts to various requirements in dental offices.

Your benefits at a glance

- Broad application spectrum.
- Reliable protection against thermal and chemical influences.
- Cementation of e.g. crowns, bridges and inlays, as well as cavity liner for permanent restorations.





PRODUCT OUTLINE

PHOSPHATE CEMENT

Liquid

Content Regular curing, 1 x 30 ml Bottle

Autoria

Art. code

Liquid

Content Fast curing, 1 x 30 ml Bottle

I X 50 IIII Dottic

Art. code

Powder

Content	
Regular curing, 1 x 90 g Glass	
Art. code	6599 4212

Powder

6599 4220

6599 4247

Content	
Fast curing, 1 x 90 g Glass	
Art. code	6599 4239

PROSTHETICS TEMPORARY MATERIALS

ALSO TEMPORARIES NEED RELIABILITY.

Temporary restoration of prepared teeth is a key component in the process of crown and bridge fabrication. It not only offers protection for the tooth, but also allows the patient to get an impression of the permanent restoration.



PreVISION® Cem Temporary cementation made easy.

Giving a hand to oral health.



5 **PROSTHETICS**

5.7 TEMPORARY MATERIALS

PREVISION CEM

PREVISION[®] CEM — TEMPORARY CEMENTATION MADE EASY.

PreVISION Cem is a ready-to-use, one-component provisional cement. It is suitable for the reliable cementation of temporary crowns and bridges as well as for the provisional cementation of permanent restorations.

Your benefits at a glance

- High effectiveness with easy application.
- Immediately ready-to-use.
- No mixing, no dosing errors, no waste of material.
- Eugenol-free.
- Moisture setting.



PRODUCT OUTLINE

PREVISION CEM TUBE

Tube		
Content		
1 x 37 g Pla	stic Tube	
Art. code	6600 1540	

NOTES

5 **PROSTHETICS**

5.7 TEMPORARY MATERIALS

DENTALON PLUS

DENTALON® PLUS — WELL-ESTABLISHED.

Dentalon plus is a well-established self-curing resin in a powder/liquid combination for the fabrication of temporary crowns and bridges.

Your benefits at a glance

- High gloss polish.
- High mechanical stability.
- Individual colour adaptation possible.
- High colour stability due to amine free catalyst system.



PRODUCT OUTLINE

DENTALON PLUS ASSORTMENT

Assortment

6504 1200

Art. code

Liquid Content	
1 x 250 ml Bottle	
Art. code	6504 1138

6504 1146

DENTALON PLUS LIQUID

1 x 45 ml Bottle

Liquid

DENTALON PLUS POWDER

Powder L (Light)

Content	
1 x 100 g Powder	
Art. code	6504 1065

Powder M (Medium)

Content		
1 x 100 g	Powder	
Art. code		6504 1073

Powder D (Dark)

Content	
1 x 100 g Powder	
Art. code	6504 1057

DIGITAL PROSTHETICS FROM CARA. PUT YOUR TRUST IN GROUND-BREAKING SOLUTIONS.

As an innovative, reliable partner for dental practices and dental laboratories, cara – the integrated CAD/CAM system from Kulzer – offers products, services and technologies for the complete digital dental workflow. With our state-of-the-art cara Production Centre and our extensive product portfolio covering all elements of CAD/CAM, we offer you precisely the solutions that you require. Customised, high-quality and aesthetic.

6 (CAD/CAM	114 – 125
6.1	cara Hardware and Software	116
6.2	Implant Prosthetics cara I-Butment cara I-Bridge cara I-Bar cara YantaLoc	117 118 119 120 121
6.3	Crown and Bridge Prosthetics cara crowns, bridges and more	122–125 122



6 CAD/CAM

6.1 CARA HARDWARE AND SOFTWARE

CARA HARDWARE AND SOFTWARE. SCANNERS & SOFTWARE FOR ALL YOUR NEEDS.

cara scanners

Have you got your own laboratory connected to your dental practice? Then you have three different classic versions to choose from at once. Our partner 3Shape offers the widest range of scanners in the Dental Lab Industry. With the new E-Scanner Series E1, E2 and E3, and the D1000 and D2000 you have the choice to find the right scanner for your specific needs. Combine that with the right software package and you have a customized system for your practice lab. The new Crown & Bridge package has been designed to solve the majority of the cases in a lab. If you need more, go with the premium package or choose from a long list of Add-On modules for more advanced cases or use pay-per-use by using CAD Points for each case.





- Coping and bridge frameworks
- Anatomical copings and bridges
- Full anatomical C&B
- Single Wax Up/wax-up bridges Inlay/Onlay/Veneers

Dental System Premium offers additional:

Gingiva design

- Tabletops and non prepared veneers
- Multi-layer C&B
- Digital temporaries
- Virtual diagnostic wax-up
- Post&Core
- Telescopes
- Impression trays
- Positioning guides
- Splints, nightguards and protectors

All other indications can be done by using CAD Points or ordering the add-on modules.

Add-On Module of 3Shape or use CAD Points

Implant Bars & Abutment Designer





Removable

Full Dentures

Model Builder™ (TRIOS® and

CAD Points







cara Scan 4.0: convenient and ready to use

Thanks to its small dimensions and its low weight, the cara Scan 4.0 is appropriate for every laboratory and every practice. The easily operated and highly precise two-axis scanner measures to an accuracy of 15 microns in a fully automatic scanning procedure and offers you a range of scanning strategies: The in-place strategy allows you to determine the position of the individual tooth exactly; the multi-die strategy allows you to scan multiple teeth simultaneously and you can work with the fully automatic version for single caps. Selective scanning of the gingiva, wax-ups and check bites are also made easier.



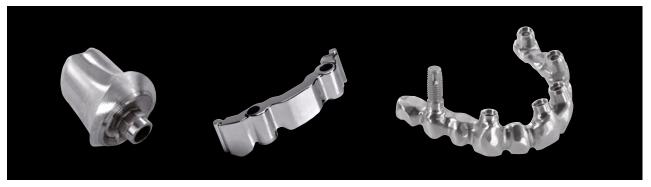
cara CAD Software: universal and practice-oriented

The cara CAD software works with standardised open formats. For example, STL, PLY, ASC and other data sets can be imported into and exported out of all CAD/CAM systems without any problems. This guarantees comprehensive system compatibility and smooth communication between the dental practice, dental laboratory and production centre.

CARA IMPLANT PROSTHETICS. THE SAFE WAY TO ENHANCED AESTHETICS.

Implantology and aesthetic dentistry are inseparable in dental prosthetics and dentistry. Just like the cara I-Products and the implant systems of your choice! The customised abutments and superstructures for high-quality dental restorations offer you the perfect conditions for taking your first steps in the growing world of implant prosthetics or expanding your market position.

The use of cara I-Products pays off for you. For example, the naturally shaped emergence profile and the individually designable abutment make it even easier for you to achieve first-class results. For maximum flexibility, the screw channel can even be angled on the cara I-Butment CoCr angled, cara I-Bridge angled and cara I-Bar angled. This offers you considerably more technical flexibility and also allows you to expand your range of services significantly. The secure, reliable direct screw connection means you do not need any more abutments for adjusting divergent implants. For you, that means fewer parts and work steps and thus increased cost-efficiency and time savings.



From left to right: one-piece cara I-Butment, cara I-Bar and cara I-Bridge with implant also made of titanium.

cara Warranty

As a technology pioneer, our company boasts much more experience than our imitators. In combination with state-of-the-art production processes and a professional quality assurance system, this allows us to offer you guarantees spanning up to 20-years¹ on cara I-products. The prosthetic solutions that offer you the greatest flexibility are thus also covered by the most comprehensive guarantee.



cara I-Solutions

The cara I-Products are available for a wide variety of implant systems². You can find more detailed information on which system is best suited to which indication in the continuously updated platform overviews at **kulzer.com/cara**

Manufacturer	
Neoss®	
Nobel Biocare®	
Osstem®	
Straumann®	
Sweden&Martina	
Thommen®	
TRI®-Vent	
XIVE®	
Zimmer Dental	

¹ cara guarantees depending on material selection: cara I-Butment 5–10 years, cara I-Bridge 5–20 years, cara I-Bar 10 years.

² The registered trademarks and company names are the property of the respective companies.

CARA I-BUTMENT

CARA I-BUTMENT®. CUSTOMISED ABUTMENTS WITH A PERFECT FIT.

Take advantage of the benefits of customised cara I-Butments in comparison with standard abutments. We guarantee you the highest quality, a perfect fit and accuracy to your specifications with CAD/CAM production. This allows you to adapt the cement margin to the gingival level. They not only look like real teeth but also reduce the risk of periimplantitis.

cara offers you the perfect abutment for every indication and aesthetic situation. You have the choice between two-piece abutments made of zirconium dioxide on a titanium interface and one-piece titanium or cobalt-chrome abutments. The naturally shaped emergence profile, the simple adjustment of divergent implants and the possibility of angling the abutment geometry by up to 25° with cara I-Butment CoCr are additional benefits.



Two-piece zirconium abutment on titanium interface.



One-piece titanium abutment.



cara I-Butment angled CoCr with angled screw channel.





CARA I-BRIDGE

CARA I-BRIDGE[®]. FLEXIBILITY WITH ANGLED SCREW CHANNELS.

Our innovative prosthetics update speaks for itself! cara I-Bridge regular with straight screw channels and cara I-Bridge angled with angled screw channels are accurately produced and homogeneous implant bridges with an optimal fit. They offer increased safety thanks to stress-free bridges and the screw connection reduces the risk of periimplantitis. cara I-Bridge are produced with the latest CAD/CAM technology in our production centre in Hanau, Germany, and are available for all market-leading implants systems via the "cara I-Bridge New Connection".



cara I-Bridge regular

The superstructure in the version with straight screw channels is available in cobalt-chrome and titanium. cara I-Bridge regular can be adapted with spacer sleeves or – if the implant is already well positioned – placed at implant level. The screw connection directly with the implant is not only exceptionally effective and cost-efficient, but also highly recommendable from an aesthetic perspective.

cara I-Bridge angled

Only cara has the original! cara I-Bridge angled is based on the patented production process with angled screw channels. It is an accurately produced implant bridge made of titanium or cobalt-chrome with the possibility of angling the screw channels by up to 25°. This ensures optimal positioning of the implant bridge without cost-intensive abutments and thus makes cara I-Bridge angled a cost-efficient and aesthetically pleasing solution.



cara I-Bridge angled by Zahnkreation Wolfgang Sommer.



up to 25° more flexible thanks to the screw channel which can be angled.

CARA I-BAR

CARA I-BAR[®]. STRESS-FREE AND ACCURATE FIT.

The cara I-Bar is our answer to your desire for a reliable primary structure for a dental restoration that can be removed under certain conditions. To ensure a stress-free sit, cara I-Bar is produced from a block of cobalt-chrome or titanium. The dental restoration is suitable for a wide range of indications and leading implant systems, can be individually designed and can be adjusted to reflect the natural contours of the gingiva. The CAD design process remains in your hands: simply use the standard-ised or custom-designed bar and adjust it to fit the patient. You can include a range of different types of attachments and are not limited by the number of implants per jaw.



cara I-Bar regular

The individually produced CAD/CAM bars already offer you a wide range of application possibilities in the cara I-Bar regular version. The bars can be screwed on any number of implants – on common implant systems and for every patient case.

cara I-Bar angled

All the knowledge of cara production is used to ensure an accurate fit and optimal precision. The patented possibility of angling the screw channel by up to 20° ensures longer-lasting friction surfaces and also offers you increased flexibility.



Bar work on six implants in the mandible.



The bar is divided into three parts for simpler cleaning.



The finished piece rotated laterally to the left.



The primary structure is optimally adjusted to the natural contours of the gingiva.

CARA YANTALOC

CARA YANTALOC[®]. STABLE GRIP FOR DENTAL RESTORATIONS.

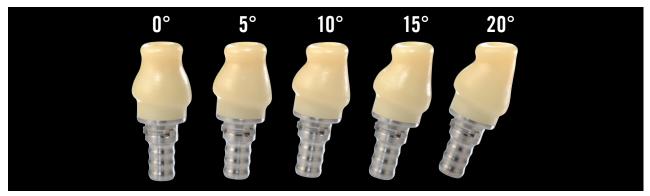


Provide a stable grip and minimise the risk of periimplantitis: cara YantaLoc can do both! The patent-pending connection comprising of a screw retained Titanium base with an angled zirconium dioxide structure and an attachment function allows users to fix removable dental restorations to implants safely. The smooth zirconium dioxide surface prevents wear of the retention elements in the matrix: That makes regular replacement unnecessary and instead of the retention elements.

your patients can bite down hard for longer.

The structure is made of zirconium dioxide and offers excellent soft tissue integration and pseudoadhesion of the gingiva, less plaque and lower bacterial deposits than on metallic abutments. Alloy-triggered allergies can be ruled out with high performance ceramics. Cleaning is simple too: even with a regular toothbrush.

YantaLoc can be used on a wide range of standard implant systems. Thanks to five different angulations from straight to 20° and the slim construction, even difficult implant positions can be easily compensated. With their tooth-like colour, the ceramic structure creates a thoroughly aesthetic effect in the mouth.



Users can order cara YantaLoc in five different angulations up to 20°.



Comparison of the size of cara YantaLoc and cara YantaLoc LV: The Low Version allows the height to be significantly reduced to a minimum of only 4.00mm and a gingival margin of 1-2 mm instead of the previous 7.19mm and 1-3mm.



Bonding of the zirconia retainer on a titanium base and subsequent screw connection in the practice.

6.3 CROWN AND BRIDGE PROSTHETICS

CARA CROWNS, BRIDGES AND MORE

CARA CROWNS, BRIDGES AND MORE. ALWAYS THE RIGHT MATERIAL.

cara translucent zirconium dioxide



The translucent zirconium dioxide from cara can be used to produce monolithic crowns and bridges constructions cost-effectively and to produce optically appealing frames for customised ceramic veneering. The extremely high translucency and tooth-coloured shading make the material a cost-effective alternative to non-precious metal all-cast crowns – especially in the posterior dental region. In combination with HeraCeram Universal stains in paste form and HeraCeram Zirkonia ceramics, you can produce aesthetic prostheses for every indication. cara 5-Year Warranty offers you and your patients additional security.





From left to right: cara translucent zirconium dioxide in transmitted light in the colour spectra light, medium and intensive as well as white WS and B-medium WS.

cara lithium disilicate



The cara lithium disilicate complements the all-ceramic product range for high-quality single-tooth restorations. The fact that they are made from the tried-and-tested IPS e.max[®] CAD blanks from Ivoclar Vivadent and the sophisticated and specially adapted grinding strategy ensures that you receive LiSi₂ in outstanding cara quality. The 3Shape DentalDesigner™ software allows you to design inlays and onlays as well as cutback and fully anatomical crowns simply and efficiently. You then receive the products you require back from the cara Production Centre in an uncrystallised state – and can personalise them as required.



From left to right: completed restoration, finished with HeraCeram Zirkonia 750 and Stains universal.

* cara LiSi, frames are made of well-proven IPS e.max® CAD blanks by Ivoclar Vivadent.



cara polymethyl methacrylate



Tried-and-tested quality from cara. The tooth-coloured polymethyl methacrylate acrylics in the two colours cara Temp PMMA light and cara Temp PMMA medium are ideal tools for laboratory fabricated temporary restorations. They can be designed simply and produced cost-effectively. The accurately fitting production makes them the first choice for long-term temporaries too. The residue-free, burn-out plastic cara Cast PMMA is exclusively approved for extraoral use and is perfect for the production of crowns and bridges using the press-to or casting techniques.



From left to right: cara temporary restorations in the colours PMMA light and PMMA medium.

cara cobalt-chrome



Save yourself extensive reworking! cara cobalt-chrome alloys are ceramic bonding alloys which are free from beryllium and cadmium and with which you can produce a smooth, ready-to-veneer frame with no trouble at all. The CoCr frameworks manufactured with the selected laser melting (SLM) additive production process are as homogeneous and accurately fitting as perfectly cast non-precious metal crowns and bridges. The layered build up offers maximum design freedom and allows precise fabrication of delicate structures. The subtractive milling process for framework structures, telescopes and fully anatomic units is characterised by its extremely smooth surfaces. 10-year cara guarantees are included with both versions.



Excellent fit (CoCr SLM).



Very smooth and shiny surface (CoCr milled).

6 CAD/CAM



cara has a lot more to offer you!

Find out more about your possibilities on our website. Or contact our local sales representatives in your country.

kulzer.com/cara





PERFECT DIAGNOSTIC IMAGE QUALITY

The Agfa Dentus range comprises intra-oral and extra-oral X-ray films. It is supported by suitable intensifying screens, film cassettes for extra-oral exposures and processing chemicals.

The X-ray films for intra-oral and extra-oral applications are available in all the standard formats used in practices. All the Agfa Dentus X-ray films provide high image quality at a low radiation dose.

Agfa Dentus Duplicating film is available for making copies of extra-oral X-ray exposures for patients, dentists continuing treatment, insurance companies and documentation purposes.

7 X-Ray Materials

126-131

7.1	Intraoral X-ray Films	125
	Agfa Dentus	128
7.2	Extraoral X-ray Films	129
	Agfa Dentus Ortholux	129
	Agfa Dentus Duplicating	129
7.3	Accessories	130–131
	Agfa Dentus Film Cassettes & Intensifying Screens	130
	Agfa Dentus X-ray Chemicals	131



7 X-RAY MATERIALS

7.1 INTRAORAL X-RAY FILMS

AGFA DENTUS

AGFA DENTUS[®] — NOT JUST SAFE — COMFORTABLE TOO.

Agfa Dentus is a supersensitive intra oral film in the Softopac with particularly high image quality and very low radiation dose requirement. The Agfa Dentus is compatible with all customary X-ray units. It can be photo-chemically processed with all standard X-ray film chemicals manually, or by machine. When changing to DENTUS no additional acceptance test (in accordance with X-ray ordinances) is necessary. Agfa Dentus E and E/F films are not only safe but are also comfortable for the patients due to extra soft packaging.

Indications

- Universal intraoral film.
- For manual and automatic processing devices.

Benefits

- Easy diagnosis due to high contrast and high maximum density (well visible grey graduations).
- Prevention of camera shakes due to short operation times.
- Softopac with soft film edges.
- Extra soft plastic, saliva resistant and easily disinfected.
- Primary packaging guarantees safe handling even in the darkroom.
- Universal processing indication.
- Long storage life: archiving ensured for up to 30 years.
- Low base misting/fog value.



Product	Content	Art. code
E/F-SPEED X-RAY FILMS		
3 x 4 cm, Single film	150 x 1 Sheets	6603 5581
2 x 3 cm, Single film	100 x 1 Sheets	6503 1124
E/F-SPEED X-RAY FILMS		
3 x 4 cm, Double film	150 x 2 Sheets	6541 4623
2 x 3 cm, Double film	100 x 2 Sheets	6503 1256



7.2 EXTRAORAL X-RAY FILMS

AGFA DENTUS ORTHOLUX/RP6/DUPLICATING

AGFA DENTUS[®] ORTHOLUX / RP6 / DUPLICATING — FOR HIGHEST DIAGNOSTIC DEMANDS.

Agfa Dentus Ortholux is an orthochromatic (green sensitive) extra-oral film for highest brilliance and resolution of detail which can be combined with all commercial green-sensitive intensifying screens e.g. Agfa Dentus Ortho. Thanks to modern crystal and emulsion technology Agfa Dentus Ortholux guarantees excellent image properties at low dose of radiation.

Agfa Dentus Duplicating is a copy film to duplicate X-ray films at an equal tonal value.

Indications

- Panorama layer exposures.
- Cephalometry.
- Mandibular joint examinations.
- Hemimandible technique.

Benefits Agfa Dentus Ortholux

- Extremely sharp.
- Finest resolution of detail.
- Brilliant imaging due to particularly clear blue layer and high contrast.
- Very fine grained picture for homogeneous overall picture.
- Exceptionally low misting at high storage stability.
- Distinct processing stability.

Agfa Dentus Duplicating

- Extremely high copying clarity.
- Optimal contrast.
- High precision reproduction.
- UV- and white light sensitive.
- For processing in established developing units.





Product	Content	Art. code
ORTHOLUX		
12.7 x 30.5 cm	100 Sheets	6600 0311
15 x 30 cm	100 Sheets	6600 0312
18 x 24 cm	100 Sheets	6600 0313
8 x 10 inch	100 Sheets	6600 0314
15 x 30 cm, Register	100 Sheets foldable for archiving	6600 2380

7 X-RAY MATERIALS

7.3 ACCESSORIES

AGFA DENTUS FILM CASSETTES & INTENSIFYING SCREENS

AGFA DENTUS[®] FILM CASSETTES & INTENSIFYING SCREENS — EASY TO USE — RELIABLE DIAGNOSIS.

Agfa film cassettes have a patented magnetic press proof system which ensures a strong and homogeneous film/foil contact and this way guarantees highest image sharpness. The very low rate of radiation absorption by the plastic used ensures that radiation exposure to the patient is kept at a minimum. The special protective coating of the intensifying screens leads to distinct reduction of scattered radiation and thus to even sharper picture results.

Benefits

- Patented magnetic press proof system between foils and film
- An integrated film-indicator shows whether there is a film in the cassette.
- Long-life due to non-sensitive, impact and scratch resistant plastic casing.
- Dimensions in accordance with standard regulations (15 x 30 cm).



Product	Content	Art. code
AGFA DENTUS ORTH Regular 400	IOLUX FILM CASSETTES	
15 x 30 cm	green-sensitive, class 400 Intensifying Screen	6600 2011
18 x 24 cm	green-sensitive, class 400 Intensifying Screen	6600 2013
8 x 10 inch	green-sensitive, class 400 Intensifying Screen	6600 2014
REGULAR 400		
12.7 x 30.5 cm	green-emitting, class 400	6576 9855
15 x 30 cm	green-emitting, class 400	6576 9847
18 x 24 cm	green-emitting, class 400	6576 9839

7.3 ACCESSORIES

AGFA DENTUS/X-RAY CHEMICALS

AGFA DENTUS[®] / X-RAY CHEMICALS — OPTIMAL PROCESSING.

The combination of Agfa Dentus developer and Agfa Dentus fixer ensures qualitative high-grade images for intraoral and extraoral technique.

Indication

• For manual processing and hand-basin units.

Benefits

- Colour coding for developers and fixers.
- Dosage assistance on 1-Litre bottle.
- Free from glutaraldehyde.
- Easy solution preparation for optimal processing.
- Customized pack sizes (1 litre and 125 ml).
- Fully recycleable polyethylene container.



Product	Content	Art. code
DEVELOPER		
D-1000 Developer Concentrate	1.000 ml, 1 litre = 5.500 ml Solution, for tank development	6528 2194
FIXER		
F-1000 Fixer Concentrate	1.000 ml, 1 litre = 5.500 ml Solution, for tank development	6528 2259
MINI DARKROOM		
Mini Darkroom	For manual development of intraoral X-ray films with Agfa Dentus D&F chemicals without darkroom and without electric connections in the dental office	6601 0083

HERA FOR GOOD REASONS.

Whether for crowns and bridges or model casting, a precisely fitted dental cast is based on an accurate model. Our materials for model fabrication deliver the best prerequisites for optimal results to you down to the smallest detail. Easy, reliable application and first class physical properties. Our dental plasters occupy the leading position in the market: They are developed, optimised and processed to the highest possible level. Our products for model fabrication, such as pin systems, Splitcast systems and insulating agents are perfectly matched. Profit from our many years of experience with materials.

8 L	ABORATORY PRODUCT LINE	132–157
8.1	Articulating/Alabaster Plasters	136–137 J
	Molda-Arti	136
	Moldafix	136
	Moldabaster	137
8.2	Typ III Hard Plaster	
	Moldano	138
	Moldadur	138
8.3	Typ IV Super Hard Plaster	140–145
	Moldarock Royal	140
	Dental Plasters Type 4	140
	Moldastone	141
	Moldastone CN	142
	Moldasynt	142
8.4	Investment materials	146–154
	Moldavest futura	147
	Moldavest exact	147
	Neo Durotherm 7	149
	Heravest M print+	150
	Moldavest master	150
	Moldavest master run	150
	Levotherm	151
	Levogel	151
	Heravest Press	152
	Heravest Premium 2	153
	Heravest Speed	154
8.5	Tray material, isolation material/laboratory silicone	156 State
	Pekatray	156
	Optosil	156



8 LABORATORY PRODUCT LINE

Hera[®] Framework Materials

Giving a hand to oral health.



8 LABORATORY PRODUCT LINE

8.1 ARTICULATING/ALABASTER PLASTERS

MOLDAFIX/MOLDABASTER

MOLDA-ARTI

Articulation plaster, Type 2 (Class 1) with very low expansion ≤ 0.03 %.

Benefits at a glance:

- Super white shade
- Excellent mixing behavior
- Soft and creamy texture
- Due to it's stability directly fix the models
- Dimensional stability due to extremely low expansion
- Good adhesion to model and base plasters

Indication:

- Fixing models in articulators
- Milling plates
- Occlusal rims
- Overcasts

MOLDAFIX[®] / MOLDABASTER[®] – THE RELIABLE PLASTERS.

Our Type 2 hard plasters MOLDABASTER and MOLDAFIX offer maximum product stability and reliability - developed in co-operation with the manufacturer.

Moldabaster is a multi-purpose alabaster plaster. It is noted for good flow properties and optimum wettability. Mix Moldabaster with Type 3 Moldadur for investment of prosthetics with the acrylic technique. With its short setting times and the option of fast mixing, Moldabaster supports efficient processing. MOLDAFIX is an articulation plaster with very low expansion and permanent dimensional stability.

Benefits at a glance:

- very good flow properties
- good wettability
- can be mixed with Moldadur
- for investment of prosthetics in the acrylic technique
- fast mixing and fast setting



MOLDAFIX ARTICULATION PLASTER, TYPE 2

MOLDAFIX is an articulation plaster with very low expansion < 0.03 %. It is suitable for the fixing/securing of models in articulators and for the production of matrices and milling sockets.

Indications:

- Fixing/securing models in articulators
- Production of matrices
- Production of milling sockets

Benefits:

- Immediate fixation, no positional displacement
- Extremely low expansion
- Long lasting dimensional stability
- Individualised processing time, controlled by the addition of water

chnical specifications for MOLDAELY

Shade	white	
Delivery form	25 kg Fleece Sack	
Mixing ratio	100:28–30	
Mix and stir in a vacuum	30 sec	
Working time	3 min	
Setting time	4 min	
Demoulding		
Compressive strength after 1 hour	18	
Setting expansion after 2 hour	0.03	

PRODUCT OUTLINF

MOLDASTONE DELIVERY FORM

Super White

Content	
1 x 25 kg Sack, super white	
Art. code	6606 634

45

MOLDABASTER ARTICULATION PLASTER, TYPE 2

MOLDABASTER is a multi-purpose alabaster plaster, distinguished by its good flow behaviour and optimal wettability.

Indications:

- Investment using acrylic technique (in combination with MOLDAMOL)
- Production of documentation models in orthodontics
- Production of matrices
- Production of anatomical models

Benefits:

- very good flow properties
- good wettability
- Can be mixed with MOLDAMOL and MOLDADUR for investment of prosthetics in the acrylic technique
- fast mixing and fast setting



Technica	l speci	fications	for	MOL	DABASTE	R
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Shade	white
Delivery form	25 kg Fleece Sack
Mixing ratio	100:45-55
Mix and stir in a vacuum	30 sec
Working time	4 min
Setting time	10 min
Demoulding	30 min
Compressive strength after 1 hour	8
Setting expansion after 2 hour	0.14

Product	Content	Art. code
MOLDAFIX DELIVERY FORM		
Moldafix Special Plaster	Shade: white, 25 kg Sack	6601 4771
Moldafix	Shade: white, 25 kg Sack, Cardboard	6602 2400
MOLDABASTER DELIVERY FORM		
Moldabaster Shade: White	16 kg (4 x 4 kg)	6505 5362
Moldabaster	Shade: white, 25 kg Sack	6516 8983
Moldabaster	Shade: white, 25 kg Sack, Cardboard	6602 2397
Moldabaster S	The fast set formulation of Moldabaster, Shade: white, 25 kg Sack	6516 9025
Moldabaster S	The fast set formulation of Moldabaster, Shade: white, 25 kg Sack, Cardboard	6602 2396

8.2 TYPE III HARD PLASTER

MOLDANO/MOLDADUR

MOLDANO[®]/MOLDADUR[®] – STRESS FREE PRECISION.

Our Type 3 hard plasters MOLDAMOL and MOLDADUR offer maximum product stability and reliability – developed in co-operation with the manufacturer.

We use only high-quality raw materials that are ground a second time with a ball mill to manufacture hard modelling plaster. This gives our Type 3 Moldamol and Moldadur plasters their special properties.

Benefits at a glance:

- perfect processing consistency
- high compatibility with alginate impressions
- very good stackability
- very good sculpting characteristics

MOLDADUR HARD PLASTER, TYPE 3

Indications:

• Working, opposing, situation and repair models for full and partial prosthetics.

Benefits:

- perfect processing consistency
- Very good compatibility with alginate impressions
- very good stackability
- Suitable for casting up to 6 basing arches
- very good sculpting characteristics
- Perfectly adjusted setting expansion on par with Type 4 plasters (0.08 % with excellent dimensional stability)



Technical specifications for MOLDADUR		
Shade	yellow, blue	
Delivery form	25 kg Fleece Sack	
Mixing ratio	100:30	
Mix and stir in a vacuum	30 sec	
Working time	6 min	
Setting time	12 min	
Demoulding	45 min	
Compressive strength after 1 hour	32	
Setting expansion after 2 hour	-	

MOLDANO HARD PLASTER, TYPE 3

Indications:

Working, opposing, situation and repair models for full and partial prosthetics.

Benefits:

- perfect processing consistency
- Very good compatibility with alginate impressions
- very good stackability
- Suitable for casting up to 4 basing arches
- very good sculpting characteristics



Technical specifications for MOLDA		
Shade	blue	
Delivery form	25 kg Fleece Sack	
Mixing ratio	100:30	
Mix and stir in a vacuum	30 sec	
Working time	4 min	
Setting time	7 min	
Demoulding	30 min	
Compressive strength after 1 hour	30	
Setting expansion after 2 hour	0.16	

Product	Content	Art. code
MOLDANO DELIVERY FORM		
Blue	1 x 25 kg Sack	6511 3526
Blue	1×25 kg Sack, Cardboard	6602 2411
Blue	1×18 kg Carton (4.5 kg Bag)	6587 0394
Blue	1 x 4.5 kg Bag	6587 0882
White	1 x 18 kg (4 x 4.5 kg)	6604 1806
White	1 x 25 kg Sack	6535 0226
White	1×25 kg Sack, Cardboard	6602 2413
Yellow	1 x 25 kg Sack	6601 4741
Yellow	1×25 kg Sack, Cardboard	6602 2412
MOLDADUR DELIVERY FORM		
Blue	1 x 25 kg Sack	6505 2563
Blue	1 x 25 kg, Cardboard	6602 2398
Yellow	1 x 25 kg Sack	6601 4742
Yellow	1 x 25 kg Sack, Cardboard	6602 2399
Yellow	1 x 18 kg Carton (4 x 4.5 kg Bag)	6605 5361

8 LABORATORY PRODUCT LINE

8.3 TYPE IV – SUPERHARD PLASTER

DENTAL STONES TYPE 4

MOLDAROCK ROYAL — HIGH STRENGTH STONE, TYPE 4

Benefits at a glance:

- Snap-Set-Effekt deforming after 30 minutes
- Suitable for pouring up to 6 dental arches at a processing time of 8 minutes
- Very good hand mixing due to creamy consistency
- Perfect flowability, but still thixotropic, therefore directly buildable
- No re-expansion, therefore maximum dimensional stability
- Excellent edge stability
- The colors are absolutely homogeneous, streak-free and scanable



PRODUCT OUTLINE

MOLDAROCK ROYAL DELIVERY FORM

Content	Art. code	
18 kg, Aluminium Bags 4 x 4,5 kg in a Shipping Carton		
light brown	6606 9137	
light grey	6606 9138	
golden yellow	6606 9139	
ivory	6606 9140	

DENTAL STONES TYPE 4

Our Type 4 super hard plasters offer maximum product stability and reliability – developed in co-operation with customers.

Our super hard plasters Moldarock Royal, MOLDASTONE, Moldastone CN and Moldasynt are based on high-quality raw materials. For the user this means first-class materials with optimum physical properties.

Our Type 4 super hard plasters are suitable for all high-quality prosthetic indications, such as saw-cut models, models for model casting, implantology, electroforming, master models for crowns and bridges, and inlays and onlays. The right plaster for every requirement.

Benefits at a glance:

- high compression strength for durable surfaces.
- outstanding long-term dimensional stability, consistently low setting expansion.
- excellent compatibility with all impression materials.
- For all indications, self-curing acrylic.

				\bigcirc		\bigcirc	\bigcirc		\bigcirc
l iv	Moldarock Royal Light brown/ rory/light grey/ golden yellow Typ 4	Moldastone CN grey/light brown/ champagne/ peach/ green and pink Type 4	Moldasynt light brown Type 4	Moldastone light brown Type 4	Moldafix white Special plaster (Articulation)	Molda-Arti super white Special plaster (Articulation)	Moldabaster/ Moldaster S white Type 2	Moldano blue/yellow/ white Type 3	Moldadur blue/yellow Type 3
Thixotropy level					~		~		

Very pronounced thixotropy 🐣 Pronounced thixotropy 📥 Low thixotropy 📥 Soft consistency 🛥

8.3 TYPE IV – SUPERHARD PLASTER

MOLDASTONE

MOLDASTONE[®] — THE FLEXIBLE SUPER HARD PLASTER.

Moldastone is a type IV-super hard plaster with thixotropic properties. It becomes liquid under the influence of mechanical interactions such as stirring, shaking or ultrasonic exposure and becomes firm in resting stage and facilitates mounting of dental arches.

Moldastone flows into the smallest spaces by itself. Since trapped air bubbles are promoted on the surface of the low viscosity material during vibration, models made from Moldastone are bubble free and have very precise detail. Moldastone is available in light brown.

Indications

- For master models in crown, bridge, inlay/onlay. and partial prosthetics.
- Opposing models.
- Galvano technique.

Benefits

- Very pronounced thixotropy.
- Smooth-flow consistency.
- Extended working phase makes it possible to pour up to 3 impressions.
- High dimensional stability.
- Low expansion.
- Quick hardening at the end of working phase.
- Bubble-free, precisely detailed models.



PRODUCT OUTLINE

MOLDASTONE DELIVERY FORM

Light Brown

Content 18 kg Carton (4 x 4.5 kg Bags)*

Art. code

* Available in single 4.5 kg Bags from your dental products dealer!

6587 0408



8.3 TYPE IV – SUPERHARD PLASTER

MOLDASTONE CN/MOLDASYNT

MOLDASTONE[®] CN / MOLDASYNT[®] — THE FLEXIBLES — PRECISE, EXTRA-HARD AND SYNTHETIC.

The super hard type IV plaster Moldastone CN mixes and processes excellently. It has very good flow properties and remains dimensionally stable even after a long period of time. Models made from Moldastone CN are bubble free and have very precise detail. Moldastone CN is available in pink, green, light brown, peach, grey and champagne.

Moldasynt is a synthetic type IV-super hard plaster. Due to its thixotropy Modasynth is particularly recommended for partial denture works. Moldasynt is available in light brown.

Indications

Moldastone CN

- For master models in partial denture, crown, bridge and inlay/onlay techniques.
- Opposing models.
- Bases for sectioned models.

Benefits

Moldastone CN

- Thixotropic.
- Very good mixing properties.
- Can also be mixed manually.
- Excellent low expansion (< 0.1%).
- Great choice of colours.
- Flows very easily in the impressions.
- Bubble free, precisely detailed models.
- Pleasant, shear thinning consistency.

Moldasynt

- For master models in partial denture, crown, bridge and inlay/onlay techniques.
- Opposing models.
- Sectioned model bases.

Moldasynt

- High dimensional accuracy.
- Low expansion (0.1%).
- Variable mixing ratio means the processing time and consistency can be individually set.
- Efficient job handling, can be mixed for a single model or up to 3 models.
- Excellent edge stability, hardness and abrasion resistance especially recommended for partial denture works.
- High fracture resistant during devestment.
- Very high surface hardness.
- Thin flowing during vibration.
- Flows easily into impressions.
- Bubble free, exact detailed models.
- Pleasant, shear thinning consistency.







MOLDASYNT DELIVERY FORM

PRODUCT OUTLINE

MOLDASTONE CN DELIVERY FORM

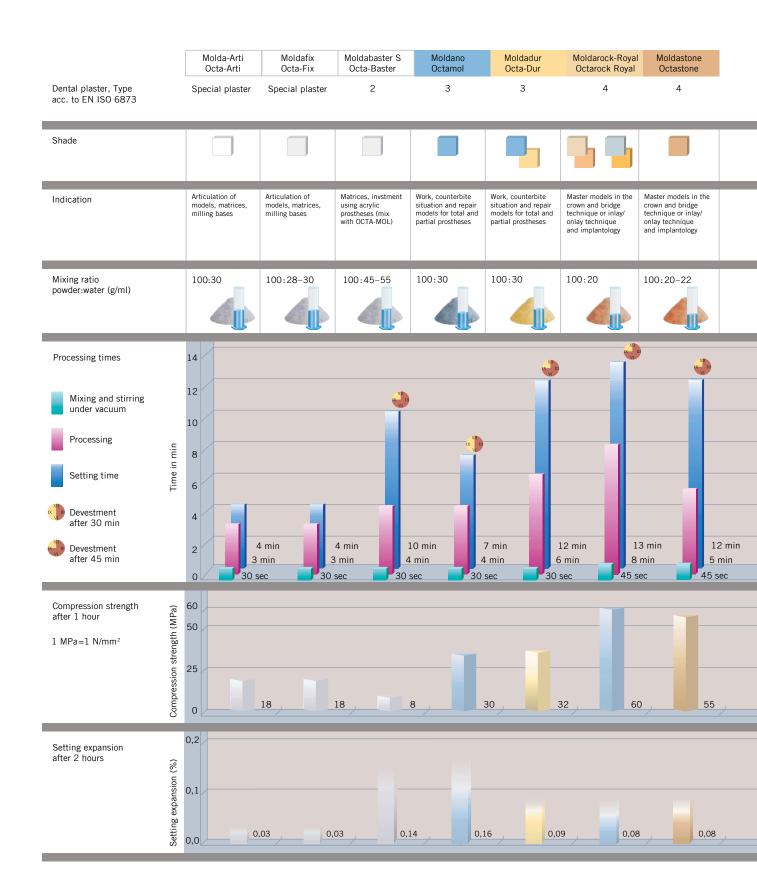
Green		Peach		Light Brown Content 18 kg carton 4 x 4.5 kg Bags*		
Content		Content				
18 kg carton 4 x 4.5 kg Bags*		18 kg carton 4 x 4.5 kg Bags*				
Art. code	6601 4743	Art. code	6602 0492	Art. code	6587 080	
E.	LINE	E.	11-12			
Pink		Grey				
Content		Content				
18 kg carton 4 x 4.5 kg Bags*		18 kg carton 4 x 4.5 kg Bags*				
Art. code	6601 4744	Art. code	6602 0493			
	and a		ALINO .			
_ight Brown		Champagner				
Content		Content				
18 kg carton 4 x 4.5 kg Bags*		18 kg carton 4 x 4.5 kg Bags*				
Art. code	6601 4745	Art. code	6602 0494			
	1018	E	a criter			

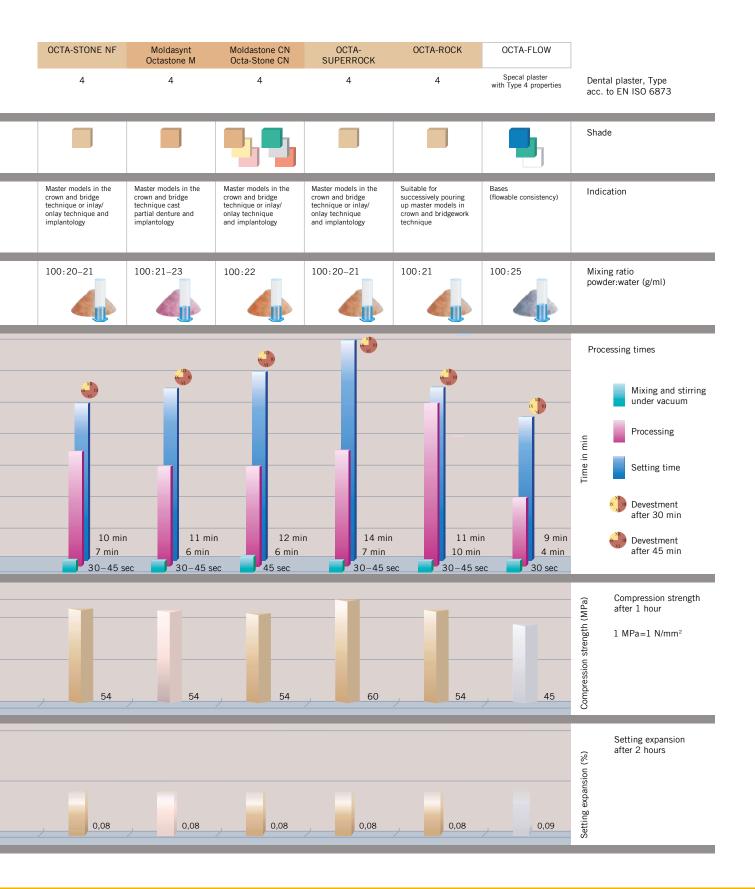
8 LABORATORY PRODUCT LINE

8.3 TYPE IV - SUPERHARD PLASTER

MOLDA PLASTERS

MOLDA PLASTERS: TECHNICAL DATA AND PROCESSING INSTRUCTIONS





COLOUR CODE

COLOUR CODE

Colour-coded and unmistakable

So you can completely concentrate on your work, there is now a **simple colour-coding** for all investment materials. Each product comes with a colour bar from which you can immediately identify which material it is.

Heravest Press
Heravest Speed
Moldavest master run
Moldavest master
Moldavest futura
Moldavest exact
Heravest Premium 2
Levotherm
Neo Durotherm
Heravest M print ⁺



MOLDAVEST FUTURA/MOLDAVEST EXACT

MOLDAVEST® FUTURA / MOLDAVEST® EXACT -

CROWNS AND BRIDGES INVESTMENT MATERIAL FOR ALL PRECIOUS METAL AND NON PRECIOUS METAL ALLOYS.

Moldavest futura

Moldavest futura is a phosphate bound, graphite-free, precious metal investment material for crowns and bridges. Moldavest futura is suitable for fast heating and also for classic, program controlled pre-heating process. Moldavest futura has proved itself in extensive field tests and has an excellent flow properties. With Moldavest futura even in difficult situations excellent fits with super-smooth, crack-free surfaces can be produced.

Moldavest exact

Moldavest exact is a phosphate bound, graphite free non-procious metals investment material for crowns and bridges. Moldavest is suitable for fast heating and also for classic, program controlled pre-heating process. Thanks to its excellent flow properties with Moldavest exact, excellent fits and super-smooth, crack free surfaces can be attained even in difficult situations.

Indications

- Moldavest futura/Moldavest exact
- For crowns and bridges.

Benefits

Moldavest futura

- Excellent flow properties.Excellent fit even in difficult situations.
- Super-smooth surface (less reworking-cracks minimised).

Moldavest exact

- Excellent flow properties.
- Excellent fits even in difficult situations.
- Super-smooth surfaces (less reworking-cracks minimised).





8.4 INVESTMENT MATERIALS

MOLDAVEST FUTURA/MOLDAVEST EXACT

Product	Content	Art. code
MOLDAVEST FUTURA DELIVERY FORM		
Moldavest futura	35 x 160 g Bags (5.6 kg) without Liquid	6600 9780
Moldavest futura	75 x 60 g Bags (4.5 kg) without Liquid	6601 3511
MOLDAVEST EXACT DELIVERY FORM		
Moldavest exact	35 x 160 g Bags (5.6 kg) without Liquid	6600 9785
Moldavest exact	75 x 60 g Bags (4.5 kg) without Liquid	6601 3500
MOLDAVEST FUTURA LIQUID		
Investment BS Liquid 2	1 x 900 ml Bottle	6601 9996
Investment BS Liquid 2	1 x 3-litre Canister	6601 9997
Investment BS Liquid 2	1 x 10-litre Canister	6601 9998
For telescope and cone jobs		
Investment BS Liquid 1	1 x 900 ml Bottle	6601 9993
Investment BS Liquid 1	1 x 3-litre Canister	6601 9994
Investment BS Liquid 1	1 x 10-litre Canister	6601 9995
MOLDAVEST EXACT LIQUID		
Investment BS Liquid 1	1 x 900 ml Bottle	6601 9993
Investment BS Liquid 1	1 x 3-litre Canister	6601 9994
Investment BS Liquid 1	1 x 10-litre Canister	6601 9995
A special liquid for obtaining high	ner expansion in investment materials	
Spezial BS Liquid 3	1 x 900 ml Bottle	6602 0131

NEO DUROTHERM 7

NEO DUROTHERM[®] 7 — For precious metal casting.

Neo Durotherm 7 is a gysum bound, graphite free C&B precision investment material for precious metal casting. It has an easily controlled expansion and flows into wax patterns well thanks to its creamy consistency. Neo Durotherm 7 can be devested under running water. Thanks to its particularly smooth surface Neo Durotherm 7 sandblasting is not necessary.

Indication

• For all gold alloy investments up to 700°C.

Benefits

- Controllable total expansion.
- Creamy consistency for good flowing in all wax patterns.
- Easily devested under running water.
- No sandblasting necessary.
- Particularly well suited to Inlay/Onlay work.
- Particularly smooth surfaces.

PRODUCT OUTLINE

NEO DUROTHERM 7

Neo Durotherm 7

0		. L.	
	Dh	ne	111

4 Bags of 4.2 kg (16.8 kg)

Art. code 6587 1277

O MUZAN O MUZA

8.4 INVESTMENT MATERIALS

MOLDAVEST MASTER/MOLDAVEST MASTER RUN/HERAVEST® M PRINT+

MOLDAVEST® MASTER / MOLDAVEST® MASTER RUN / HERAVEST® M PRINT+ — PRECISION INVESTMENT MATERIALS FOR TOTAL AND PARTIAL DENTURE.

Moldavest master is a phosphate bound, graphite free precision investment material for partial denture techniques in cobalt-chromium (CoCr) and precious metal. It is particularly suitable for silicone and also gel duplication and is used in the classic, program controlled pre-heating process. Moldavest master has particularly good flow properties and leads to excellent fits with smooth surfaces. When using Moldavest master, Heraform-silicone duplicating materials with a shore hardness between 20 and 26 is recommended.

Moldavest master run is a phosphate bound, graphite free precision investment material for partial denture techniques in cobalt-chromium (CoCr) and precious metal. Moldavest master run is suitable for silicone duplicating and can be heated up quickly, so the muffle can be put directly into the furnace which has been pre-heated to the final temperature. With Moldavest master run excellent fits with particularly smooth surfaces can be achieved.

Heravest M print⁺ is a phosphate bound, graphite free precision investment especially for partial denture frameworks as printed model castings and castings made from wax or plastic. This investment is specially developed to burn out plastic frames made with Rapid-Prototyping resins. Heravest M print⁺ is recommended for fast preheating.

Indication

Moldavest master

- For partial denture technique.
- Silicone and gel duplication.
- Classic, program controlled pre-heating process.

Moldavest master run

- For total casting technique.
- Only silicone duplication.
- Fast heating process.

Heravest[®] M print⁺

Cast partial denture.



Benefits Moldavest master

- Excellent flow properties.
- Excellent fits.
- Smooth surfaces.



Moldavest master run

- Smooth surfaces.
- Excellent fit.
- Excellent flow properties.



Heravest[®] M print⁺

- Excellent fit.
- Clean cast object.
- Smooth surfaces.

Product	Content	Art. code
MOLDAVEST MASTER		
Moldavest Master	45 Bags at 450 g (20, 25 kg) without Liquid	6600 9782
MOLDAVEST MASTER RUN		
Moldavest master run	45 Bags at 450 g (20, 25 kg) without Liquid	6600 9783
HERAVEST [®] M PRINT+		
Heravest [®] M print ⁺	20kg Carton, containing 50x400g Bags	6606 9118
MOLDAVEST LIQUID		
Investment BS Liquid 1	1 x 900 ml Bottle	6601 9993
Investment BS Liquid 1	1 x 3-litre Canister	6601 9994
Investment BS Liquid 1	1 x 10-litre Canister	6601 9995

LEVOTHERM/LEVOGEL

LEVOTHERM[®]/LEVOGEL[®] — THE SPECIALIST PARTIAL DENTURE INVESTMENT MATERIAL FOR GEL DUPLICATING.

Levotherm is a special partial denture investment material for gel duplication. It is suitable for classic, program controlled preheating process, is fast setting and results in clean, smooth cast object.

Levogel is an economic, reversible duplication gel for several duplications. It has good flow properties and is particularly precise. Levogel combines excellently with Levotherm.

Benefits

- Levotherm
- Clean, smooth casting objects.
- Excellent fit.
- Fast setting.
- High degree of hardness.

Levogel

- Reversible.
- Re-usable.
- Good compatibility with Levotherm.
- Good flow properties.
- Sharp lines.
- Economic.





Product	Content	Art. code
LEVOTHERM		
Levotherm	50 Bags at 150 g (7.5 kg) without Liquid	6587 2281
Levotherm	20 Bags a 450 g (9 kg) without Liquid	6560 6484
LEVOGEL		
Levogel	$1 ext{ x 6 kg Tub}$	6560 6468

- 8.4 INVESTMENT MATERIALS
 - **HERAVEST PRESS**

HERAVEST® PRESS — PRECISION INVESTMENT MATERIAL FOR PRESS CERAMIC.

Heravest Press is a phosphate bound, graphite-free precision investment material for pressed ceramics. It is suitable for fast pre-heating, is easy to devest and results in excellent fits.

Indications

- Specially for press ceramics.
- For fast heating.

Benefits

- Excellent fit.
- High stability.
- Easily devestment.



Product	Content	Art. code
HERAVEST PRESS		
Heravest Press	56 Bags at 100 g (5.6 kg)	6602 0402
LIQUID		
Investment BS Liquid 1	1 x 900 ml Bottle	6601 9993
Investment BS Liquid 1	1 x 3-litre Canister	6601 9994
Investment BS Liquid 1	1 x 10-litre Canister	6601 9995

HERAVEST PREMIUM 2

HERAVEST® PREMIUM 2 -

PHOSPHATE BONDED, PRECIOUS METAL INVESTMENT MATERIAL FOR CROWN AND BRIDGEWORK.

Heravest Premium 2 is Phosphate bonded, graphite free precious metal investment material for crown and bridgework. Heravest Premium 2 is suitable for fast heating and also for classic, program controlled pre-heating process. Heravest Premium 2 has excellent flow properties, even in difficult situations excellent fits with super-smooth, crack-free surfaces can be produced.

Indication

For crown and bridgework.

Benefits

- For Precious Alloys.
 - Casting Alloys 700 800°C.
 - Ceramic Bonding Alloys 850 950°C.
- Excellent flow properties.
- Excellent fit even in difficult situations.
- Super-smooth surface
- (less reworking-cracks minimised).
- For speed and conventional programmed preheating process.



PRODUCT OUTLINE

HERAVEST PREMIUM 2

Heravest Premium 2

Content

5.6 kg Carton, containing 35 x 160 g Bags

6602 1966

Art. code

LIQUID

Investment BS Liquid 2

Content	
1 x 900 ml Bottle	
Art. code	6601 9996

Investment BS Liquid 2

Content
Content

1 x 10I Canister

rt. code

6601 9998

Investment BS Liquid 2

Content			
1 x 3I Canister			
Art. code	6601 9997		

8.4 INVESTMENT MATERIALS

HERAVEST SPEED

HERAVEST® SPEED -

PHOSPHATE BONDED, PRECIOUS AND NON PRECIOUS METAL INVESTMENT MATERIAL FOR CROWN AND BRIDGEWORK.

Heravest Speed is Phosphate bonded, graphite free, precious and non precious metal investment material for crown and bridgework. Heravest Speed is suitable for fast heating pre-heating process.

Indications

For crown and bridgework.

Benefits

- Extra-smooth surfaces.
- Highest precision.
- Precise fit casts.
- For speed preheating process.
- Suggested for the transfer technique 900 > 700°C.

6460 1514

6603 6741



PRODUCT OUTLINE

containing 35 x 160 g Bags

HERAVEST SPEED

Heravest Speed

5.6 kg Carton

LIQUID

Investment BS Liquid 1		
Content		
1 x 900 ml Bottle		
Art. code	6601 9993	

Heravest Speed

Content		
20 kg Carto containing	on 125 x 160 g	
Art. code		6460 1151

Investment BS Liquid 1

Content			
1 x 3I Canister			
Art. code	6601 9994		

Heravest Speed

Content	
4.5 kg Carton	
containing 75 x 60 g Bags	

Art. code

Investment BS Liquid	1

Content	
1 x 10I Canister	
Art. code	6601 9995

Type	C + B Pr	C + B Precious Metal		C&B Precious Metal C&B NPM	C+B NPM	Cast partial denture	ture			Pressed Ceramic
	£ 83	6) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	8) 8) 8)	D) 8 9 8 9 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9	500 (5 8) (5) 8) (5) 8) (5) 8) (5)		r.			E B B
	Moldavest futura	st Heravest Premium 2	Neo Durotherm 7* (plaster bonded)	Heravest Speed	Moldavest Exact	Moldavest master	Moldavest master run	Levotherm	Heravest M print ⁺	Heravest Press
	Investme	nt material accorc	Investment material according to EN ISO 15912	0						
Heating method										
Rapid heat-up										
Software guided heat-up										
Indication range										
Inlays										
Partial crowns										
Crown, small bridges										
Tapered crowns, telescope										
Large bridges										
Cast partial denture (NPM + PM)						Silicone + gel duplication	Silicone duplication	Gel duplication	Silicone duplication	
Suitable sprue systems										
Steel ring with liner				X1 to X9						
ring free				Recommended X1 to X6						Silicone/card- board sheath
others						Cast partial denture cuvette***	Cast partial denture cuvette***			
Technical data (stirring, investment)										
Mixing ratio (powder:liquid) g/I	g/ml 100:22	2 100:22	100/26-30 ml H ₂ 0 dest.	100:25	100:22	100:18	100:18	100:14	100:20	100:22
Mixing time under vacuum sec	ec 60	60	45	60	60	60	60	60	60	60
Processing range, approx. at 22°C mi	min 7	9	5	5-6	7	4	4	3-4	5	6
Setting start (Vicat) mi	min 9.5	8.5	16	6	9.5	5.5	5.5	3.5	7.5	6
Flowability	mm 125-135	35 125-135	110	135-145	130-140	145 - 155	125 - 135	90-120	129–133	130-140
Compression strength	MPa 3.0	4.0	5.0	6.0	4.0	15.0	14.0	20	13	4.0
Therm. expansion, linear % (equivalent to 75 %)	1.0	1.05	1.0 (100/28ml H ₂ 0)	1.10	0.95	0.9	0.85	1.2 (100%)	0.8	0.9
*** Total expansion, linear % (equivalent to 75 %)	1.9	1.60	1.6 (100/28ml H ₂ 0)	2.0	2.55	1.7	2.05	I	2.2	1.9
Preheating										
Max. final temperature °C	020	950	700*	950	950	1030	1030	1050	1030	850
	0 850	850	software guided	950	950	software guided	950-1000	software guided	850-900	850
Recommendation for transfer technique °C		I	I	900>700	1	I	I	I		I

* Phosphate-bonded investment material
 ** Plaster-bonded investment material, heatable to 700°C (not suitable for high melting alloys – suited only for gold casting alloys)
 *** Crepe-, plastic or silicone sheaths
 All given values are mean values. More information on concentration control may be found in the specific user instructions.

8.5 TRAY MATERIAL, ISOLATION MATERIAL/LABORATORY SILICONE

PEKATRAY/OPTOSIL LIQUID

PEKATRAY®/OPTOSIL® LIQUID

Pekatray

Optosil Liquid

Optosil Liquid – for separating Optosil is suitable for separating work when manufacturing partial and

complete prosthetic synthetic work.

Pekatray is a cold polymerising synthetic resin for the manufacture of individual trays and base plates.

Liquid		Powder	
Content		Content	
1 x 1,800 ml		1 x 1 kg	
Art. code	6524 6461	Art. code	6523 7004
Liquid		Powder	
Content		Content	
1 x 750 ml		1 x 3.7 kg	
Art. code	6523 7012	Art. code	6524 6445
Liquid Assortment			
Content			

- 1 x 1 Bottle 850 g of Paste,
- 1 x 1 Bottle 25 ml Activator universal,
- 1×500 g retention granules Bottle,
- 1 x 1 small Mixing Bowl,
- 1 x 1 Screw Pipette,
- 1 x 1 Mixing Pad
- X I MIXING I GG





9 SERVICES9.1 GENERAL TERMS OF SALE AND DELIVERY 7/2017

1 Scope of Application

1.1 All sales, deliveries and services (hereinafter collectively the "Services") of Kulzer GmbH and its affiliated companies domiciled in Germany ("Kulzer") are exclusively subject to the following General Terms of Sale and Delivery. Customers' general terms and conditions of business which deviate from these General Terms of Sale and Delivery or from the law will not be accepted, and they will also not become part of a contract if Kulzer accepts or executes orders from the customer in awareness of the customer's opposing or deviating terms and conditions of business.

2 Subject Matter and Scope of Services (Offers, Samples, Guarantees, Conclusion of Contracts)

2.1 All offers of Kulzer are nonbinding and without engagement unless specifically agreed otherwise. Contracts shall be deemed concluded only after Kulzer has issued a written order confirmation, effected delivery of the goods ordered or performed the Service.

Kulzer shall be generally under no obligation to verify the correctness of the information provided by the customer upon which Kulzer's offer or order confirmation is based, and Kulzer shall also not be obligated to investigate if the execution of the customer's order based on such information infringes any third-party property rights. The customer will be advised of all risks which are identified by Kulzer.

2.2 The data and information included in data sheets, brochures and other promotional and information material of Kulzer serve solely as a guideline and become a binding part of a contract only upon the express written consent of Kulzer.

2.3 Characteristics and properties of samples and specimens are only binding if expressly so agreed.

2.4 Information about the quality, condition and (shelf-) life of products shall be deemed to be guaranties only if expressly designated as such. The same applies to the assumption of a procurement risk.

2.5 Unless otherwise agreed in writing, Kulzer will deliver products within the tolerances admissible under the relevant German or European technical standards, in particular DIN, VDE, EN ISO or similar standards.

2.6 Technical changes which are required for manufacturing reasons, or which are necessary due to legislative changes, or which serve the product update and maintenance, shall be admissible if they are reasonable for the customer.

3 Delivery, Delivery Periods, Packaging, Passing of the Risk

3.1 The type and scope of Kulzer's Services and the delivery periods are determined by the written order confirmation of Kulzer. Kulzer shall be entitled to the partial performance of Services if this is reasonable for the customer.

If the customer wishes to call off portions of an agreed total quantity for delivery in several partial deliveries, the customer shall spread such call-offs evenly over the delivery period. The call-off of more than 10% of the total quantity of one partial delivery on one date is subject to the prior written consent of Kulzer.

3.2 The delivery period commences to run only after all issues which are essential for the performance of the contract have been clarified with the customer and after the customer has performed all essential acts incumbent on him which are required for the performance of the contract by Kulzer. In particular, the delivery period does not commence to run until Kulzer has received all information from the customer which is required to effect delivery, or until the customer has furnished proof that, if required, he has opened a letter of credit, effected prepayment or provided a security, as agreed in the contract. The delivery period will be interrupted by subsequent changes requested by the customer. After agreement about the desired changes has been achieved, the delivery period re-commences to run.

3.3 Acts of God, labor disputes, riots, governmental acts and similar circumstances beyond the control of Kulzer (force majeure) release Kulzer from its obligation to perform a contract for so long as and to the extent that the effects of such force majeure circumstances persist. This applies also if such force majeure circumstances occur to sub-suppliers of Kulzer or if they occur at a point in time at which Kulzer has already been in default. Kulzer will inform the customer of the commencement and of the end of such hindrances to the performance of the Services without delay.

3.4 The products of Kulzer are generally unpacked. If the customer desires packaging, the costs will be borne by the customer.

3.5 Kulzer delivers 'ex factory'/'ex works' (Incoterms 2010). If Kulzer solely organizes the transport, the costs of dispatch and the costs of transport insurance will be borne by the customer.

3.6 The price risk (i.e. the risk of accidental loss or accidental deterioration) shall pass to the customer at that point in time at which the goods are placed at the customer's disposal at the factory/works from which delivery is effected, even if Kulzer has accepted to perform additional services such as loading or transportation of the goods. If the performance of a Service is delayed for reasons within the customer's responsibility, the risk shall pass to the customer upon receipt of a notification that the Service is ready to be performed. In such case, Kulzer will be permitted to invoice the goods to the customer's cost and risk. Upon request of the customer, Kulzer will insure these goods against theft and damage from breakage, transport, fire and water at the customer's cost.

4 Prices, Payment, Default

4.1 The prices quoted by Kulzer are exclusive of the statutory value-added tax, outer packaging, shipping charges and insurance costs ('ex works', Incoterms 2010).

4.2 Invoices are due for payment immediately upon receipt and without any deductions. Cheques will be accepted on account of performance only. The customer agrees to the electronic transmission of the invoice.

4.3 Kulzer charges interest for default in payment at the rate of eight (8) percentage points above the applicable base rate p.a. (Section 247 of the German Civil Code (BGB)). The right to furnish proof of a higher or further damage caused by default remains reserved.

4.4 Kulzer shall not be obligated to perform the contract for so long as the customer fails to perform his own obligations according to contract, including his obligations from other contracts with Kulzer and, in particular, if the customer defaults in the timely payment of invoices due. 4.5 The customer may offset counterclaims or withhold payment based on such counterclaims only if such counterclaims are uncontested in writing or non-appealable. 4.6 If the customer is in default of payment or if there are circumstances which, when applying customary banking standards, justify doubts about the customer's ability to pay, Kulzer will be entitled to perform outstanding Services only against payment in advance or subject to the provision of a security. In such case, Kulzer will be permitted to declare all of its claims against the customer immediately due for payment, irrespective of the term of any bills of exchange, and demand securities

4.7 Subject to evidence of a higher damage, Kulzer will charge 2.50 € for the second and each further reasonable reminder.

4.8 If, despite a reasonable time limit, a Service which is ready for acceptance is not fully accepted or is accepted too late through no fault of Kulzer, Kulzer will place the goods in storage at the customer's cost and risk. For such storage Kulzer will charge 0.5% of the invoice amount for each month of the delay in acceptance.

5 Warrantly, Duties of the Customer regarding Claims for Defects by his own Customers, Liability and Damages

5.1 Slight deviations from the agreed or standard quality do not constitute a defect in a product or Service. General information on the use of a product or examples for the application of a product given by Kulzer in product brochures or other advertising media do not release the customer from a careful inspection of the delivered product for its fitness for the customer's particular purpose of use. The customer's special requests regarding the particular use of a product shall only be authoritative if Kulzer has confirmed to the customer in writing at the time of conclusion of the contract that the product delivered is fit for the customer's intended purpose of use.

5.2 The customer shall notify Kulzer without delay of all claims for defects which are asserted by his own customers and which relate to Services of Kulzer, otherwise the customer's claims for defects against Kulzer will be excluded. In addition, the customer shall preserve evidence in the requisite form and provide such evidence to Kulzer.

Kulzer may reclaim from the customer a product complained of as defective (including any existing supporting documents, samples and packing slips) for investigation of the defect. The customer's failure to comply with this reasonable request will result in the exclusion of the customer's claims for defects or incompleteness of Service. The same applies to any claims for defects which are asserted against the customer by his own customers and which relate to Services of Kulzer.

5.3 For defects in a product, Kulzer's obligation to perform the contract shall, at its choice, consist of subsequent performance by remedy of the defect or delivery of a faultfree product. The customer will be entitled to cancel the contract or to reduce the purchase price in accordance with the statutory provisions only if the subsequent performance by Kulzer has failed twice or is unreasonable and the defect complained of is not merely a minor defect. Claims for damages are governed by the provisions in clause 5.6 hereof.

5.4 The compensation of any loss or damage is excluded if and to the extent that such loss or damage is caused by the improper use, modification, assembly, installation and/or operation of the products of Kulzer, or by defective instructions of the customer, and not by a fault on the part of Kulzer. The liability of Kulzer for defects in materials which are supplied by the customer and processed by Kulzer is excluded if such defects are caused by the characteristics and properties of the materials supplied by the customer should render these materials unusable during their processing by Kulzer, the customer will nevertheless be obligated to reimburse Kulzer for its processing expenditure.

5.5 Claims for material defects and defects of title become barred by the statute of limitations after twelve (12) months from the passing of the risk.

5.6 Kulzer will assume unlimited liability in cases where Kulzer has expressly assumed a guaranty/ warranty or a procurement risk, in the case of a culpable injury to the life, body or health of any person, for claims under the German Product Liability Act, and for other willful or grossly negligent breaches of duty by Kulzer. In the case of slight or ordinary negligence and damage to property or pecuniary losses caused thereby. Kulzer will assume liability only for its breach of essential contractual duties the performance of which is indispensable for the proper fulfillment of the contract and the performance of which the customer must be able to specifically rely upon; however such liability of Kulzer is limited to the damage which is typical of the contract and which was foreseeable at the time of contracting. The liability of Kulzer for delay is limited to 0.5% of the value of the Service in delay per each completed week of such delay, up to a maximum rate of 5 % of the said value. Any further liability for damages is excluded, irrespective of the legal nature of the claim asserted.

5.7 The foregoing limitations of liability apply on the merits and in terms of amount also to Kulzer's legal representatives, agents and employees and/or other persons in Kulzer's services.

6 Reservation of Title

6.1 Kulzer retains title to all products delivered until the customer has fully satisfied all of his payment obligations from the business relationship with Kulzer. This applies also if payments are made in satisfaction of specially designated claims, including claims from cheques and hills of exchange from open hills or current account 6.2 The customer shall have the right to resell, process, mix, blend or combine the goods subject to reservation of title with other items during his ordinary course of business until revocation by Kulzer, which revocation may be declared at any time and without giving reasons. A resale of the goods subject to reservation of title within the meaning herein defined extends also to the installation of such goods in ground and buildings, or their installation in facilities connected to buildings, or their use for the performance of other contracts.

6.3 The processing or transformation of the goods subiect to reservation of title is made for Kulzer as the manufacturer within the meaning defined in Section 950 of the German Civil Code (BGB) without resulting in any obligation on the part of Kulzer. The processed or transformed goods shall constitute goods subject to the reservation of title within the meaning of these General Terms of Sale and Delivery. If the goods subject to reservation of title are processed or inseparably blended/combined with other items which are not owned by Kulzer, Kulzer acquires a co-ownership of the resulting new item in the ratio of the invoice value of the goods subject to reservation of title and the replacement value of the other items used at the time of such processing or blending/ combining. If the goods subject to reservation of title are combined or inseparably blended with other items not owned by Kulzer into a uniform item which is to be regarded as main item, the customer hereby assigns to Kulzer a share of co-ownership which is proportionate to the customer's ownership of the main item. Kulzer hereby accepts this assignment. The customer will hold the property so created on behalf of Kulzer free of charge.

6.4 The customer shall insure the goods subject to reservation of title at his own cost against all standard risks, in particular against fire, burglary and water hazards, handle these goods with care and store them properly.

6.5 In the event of a resale of the goods subject to reservation of title by the customer, the customer hereby immediately assigns to Kulzer the purchase price claims against his own customers arising from such resale. If the customer resells the goods subject to reservation of title together with other items not delivered by Kulzer, the foregoing assignment applies only in the amount of the value of the goods subject to reservation of title which is specified in the invoice of Kulzer. In the case of a resale of items in which Kulzer has a co-ownership pursuant to clause 6.3, such assignment applies in the amount of Kulzer's co-ownership. The assigned claims serve as security in the same scope as the goods subject to reservation of title. If an assigned claim is included in a current account, the customer hereby immediately assigns to Kulzer a balance which corresponds to such claim from current account. Kulzer hereby accepts the said assignment of claims.

6.6 The customer shall have the right to collect, within his ordinary course of business, the claims assigned to him by Kulzer until revocation by Kulzer, which revocation may be declared at any time and for no specific reason; this collection right becomes automatically extinct without revocation as soon as the customer defaults in any of his payments to Kulzer. If payment is made by direct debiting, the customer will ensure by prior agreement with his bank that the amounts received are exempt from the bank's lien and that he is at all times able to meet his obligation to transfer his proceeds to Kulzer. At the request of Kulzer, the customer will inform his own customers of the assignment of future claims to Kulzer and provide Kulzer with any and all information and documentation which is required for the assertion of these claims.

6.7 If the aggregate value of the securities existing for Kulzer exceeds the claims of Kulzer by more than 10%, Kulzer will release additional securities of its own choice at the request of the customer.

6.8 Above and beyond the foregoing, the customer is not entitled to make any dispositions in respect of the goods subject to reservation of title (liens, pledging of security interests or other assignments in respect of the claims specified in clause 6.5. In the event of an attachment or seizure of the goods subject to reservation of title, the customer will point out that these goods are the property of Kulzer and will notify Kulzer of such attachment or seizure without delay, also in writing.

6.9 If the customer is in default of payment and a grace period fixed by Kulzer has elapsed without payment being effected, Kulzer is entitled to take back the goods subject to reservation of title also if Kulzer has not rescinded the contract.

7 Weight Accounts for Precious Metals

7.1 In the commercial intercourse involving precious metals, Kulzer maintains weight accounts. The precious metal stocks of the individual account holders are not stored separately. All account holders together form a community of proprietors which is managed by Kulzer.
7.2 Each account holder acquires by accession a co-ownership of the total existing stock of precious metals, which is expressed in and limited to the troy weight of each precious metal credited to the account holder's account. In case of a purchase or sale of precious metals, the passing of title is effected by a credit or debit entry in the respective weight account.

8 Choice of Law, Place of Performance, Place of Jurisdiction

8.1 These General Terms of Delivery and any agreement between Kulzer and the customer shall be governed by and construed in accordance with the law of Germany, without giving effect to its conflict of law provisions and without giving effect to the UN Convention on Contracts for the International Sale of Goods of 11 April 1980 (CISG).

8.2 The place of performance for the Services of Kulzer is the factory/works from which delivery is effected; the place of performance for the customer's payments is Kulzer's registered place of business.

8.3 The place of jurisdiction, also for actions on cheques and bills of exchange, is the registered place of business of Kulzer. However, Kulzer shall be entitled to recourse in any court having jurisdiction as to the respective legal action under the laws of Germany or under the laws of the country in which the customer has his registered place of business.

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kulzer.com

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