

Highly esthetic and precisely fitting restorations made of Zolid zirconia

Zolid Processing Techniques



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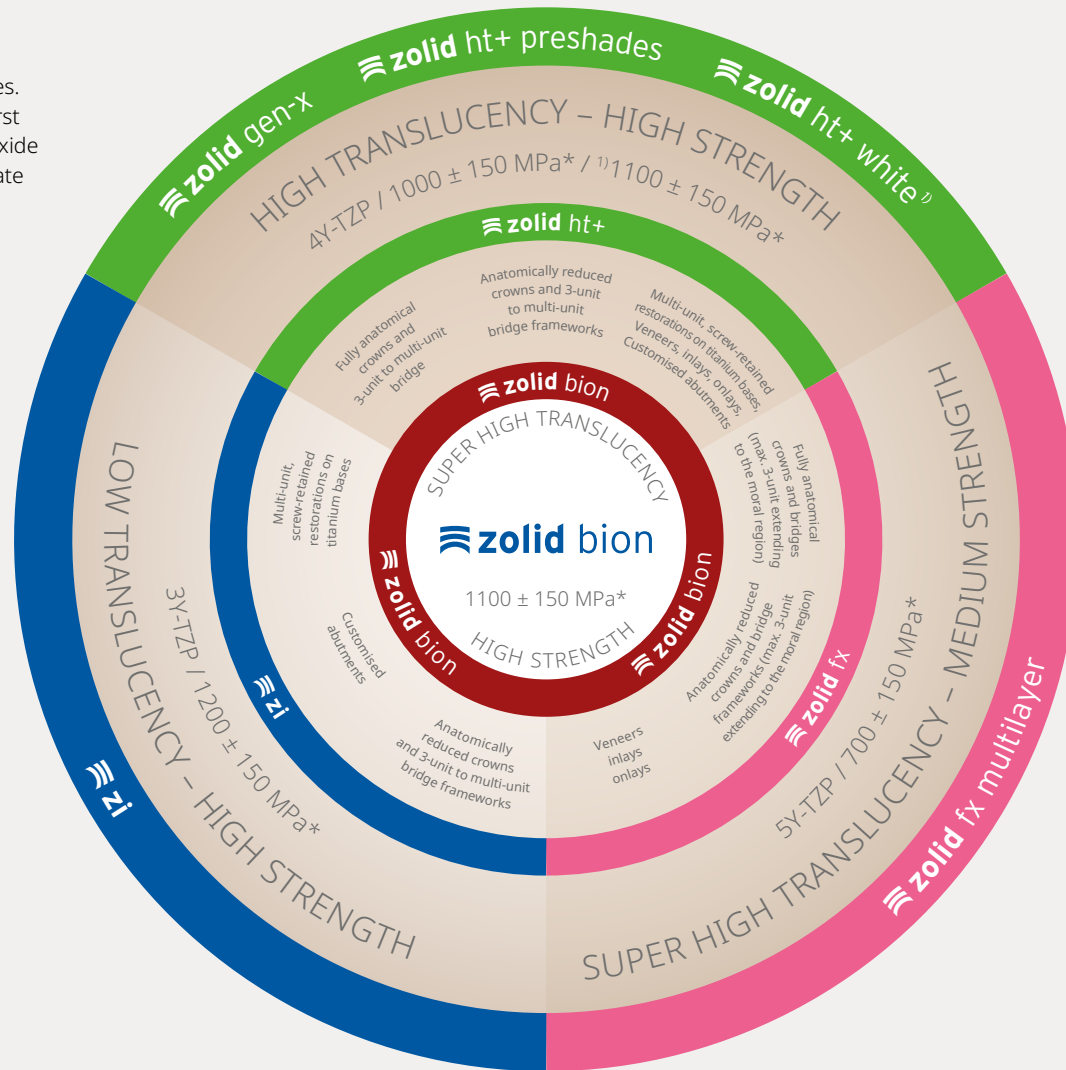
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INTRODUCTION

Overview of the Zolid product range

Zirconium oxide for great expectations

Zirconium oxide enjoys great popularity due to its convincing technical as well as optical properties. Its versatility and outstanding biocompatibility frequently make high-performance ceramics the first choice for high-quality restorations with high esthetic demands. With the Zolid brand zirconium oxide blanks, Amann Girrbach offers the right material for every zirconium-based indication** to fabricate restorations with long-term stability and natural esthetics economically and efficiently.



100%
manufactured in-house

10 Mio units
clinically proven

open to all systems

TOSOH



100% Made in Austria

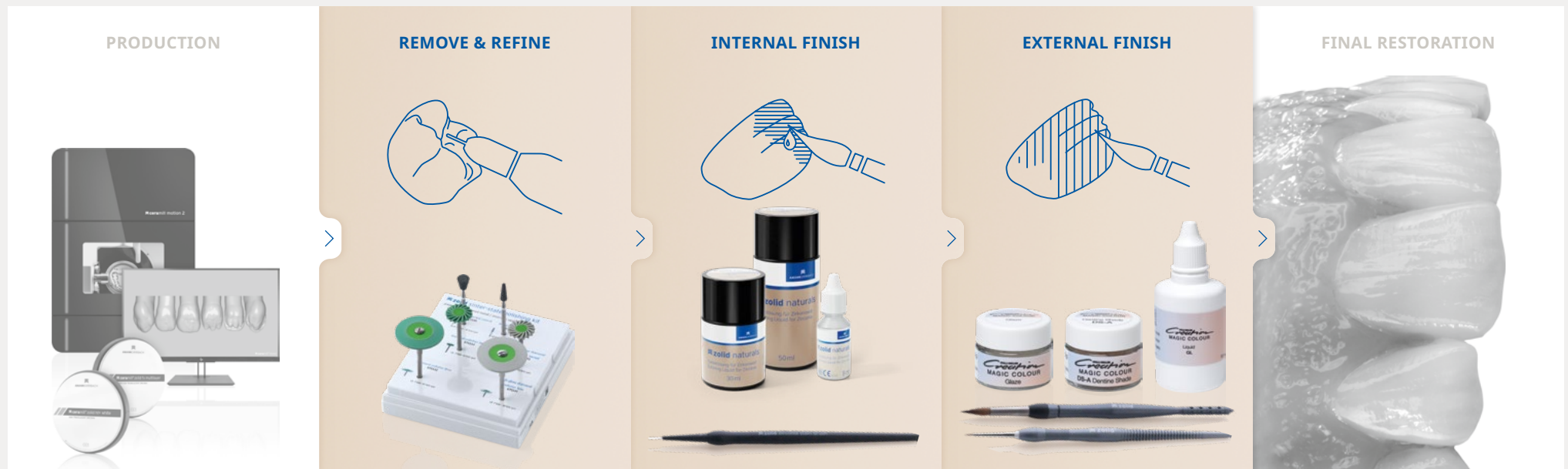
* Average of three-point bending test as defined in DIN EN ISO 6872, R&D Amann Girrbach
** According to dental ceramics Classes 4 and 5 as per DIN EN ISO 6872

Optimized workflows for maximum patient satisfaction

As esthetics are not happenstance

Amann Girrbach's Esthetic Management comprises products and solutions required for all work steps from milling and sintering of a restoration through to the final result. Here, the focus is on the most efficient, simple and reproducible workflows for the user – for highly esthetic results and high patient satisfaction.

The clearly illustrated processing technique as well as numerous video tutorials guide users through the process step by step. In addition, users have a wide range of courses and online webinars at their disposal. Add to this the new products and aids that make daily work with zirconia considerably easier for the user.







TRAINING AND SUPPORT



Adjustment of existing parameters

Processing techniques and indications

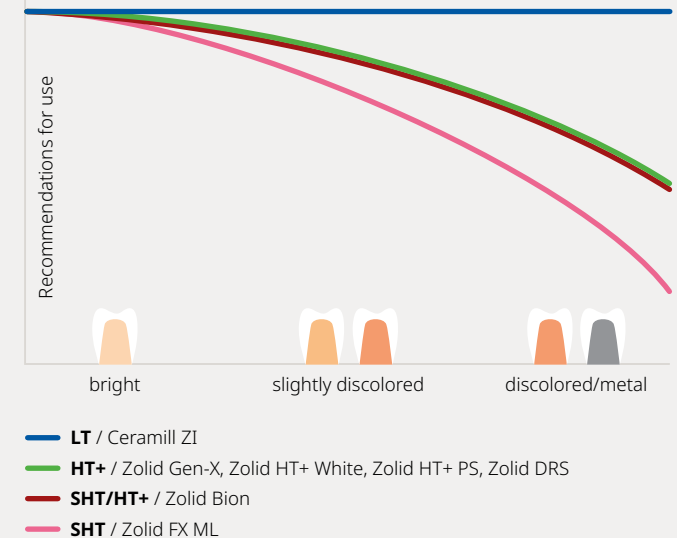
The optimum zirconium oxide for an indication is determined by a host of different factors. Esthetic requirements, the position of the denture in the patient's mouth or the shade of the stump have a decisive influence on the choice of material. The more precisely the shade of the stump, the material and the indication are matched, the more predictable and esthetically accurate the final result will be realized.

STUMP SHADE	TRANSLUCENCY	PRODUCT	PROCESSING				INDICATION							
			Brush /immersion technique	Staining technique	Cutback technique	Layering technique	Veneer	Inlay	Onlay	Anterior and posterior crown	3-ponic bridge (incl. molar region)	Multi-ponic bridge	Hybrid abutment	Hybrid abutment crown
Bright 	SHT	Zolid FX Multilayer	○	○	○		○	○	○	○	○			○
Bright – slightly discolored 	SHT HT+	Zolid Bion	○	○	○	○	○	○	○	○	○	○	○	○
Bright – slightly discolored 	HT+	Zolid Gen-X Multilayer	○	○	○	○		○	○	○	○	○	○	○
		Zolid HT+ Preshades	○	○	○	○		○	○	○	○	○	○	○
		Zolid HT+ White	○	○	○	○		○	○	○	○	○	○	○
		Zolid DRS Multilayer	○	○	○	○	○	○	○	○	○	○	○	○
Bright – discolored/metal 	LT	Ceramill ZI White	○			○							○	○

Tips & important notes

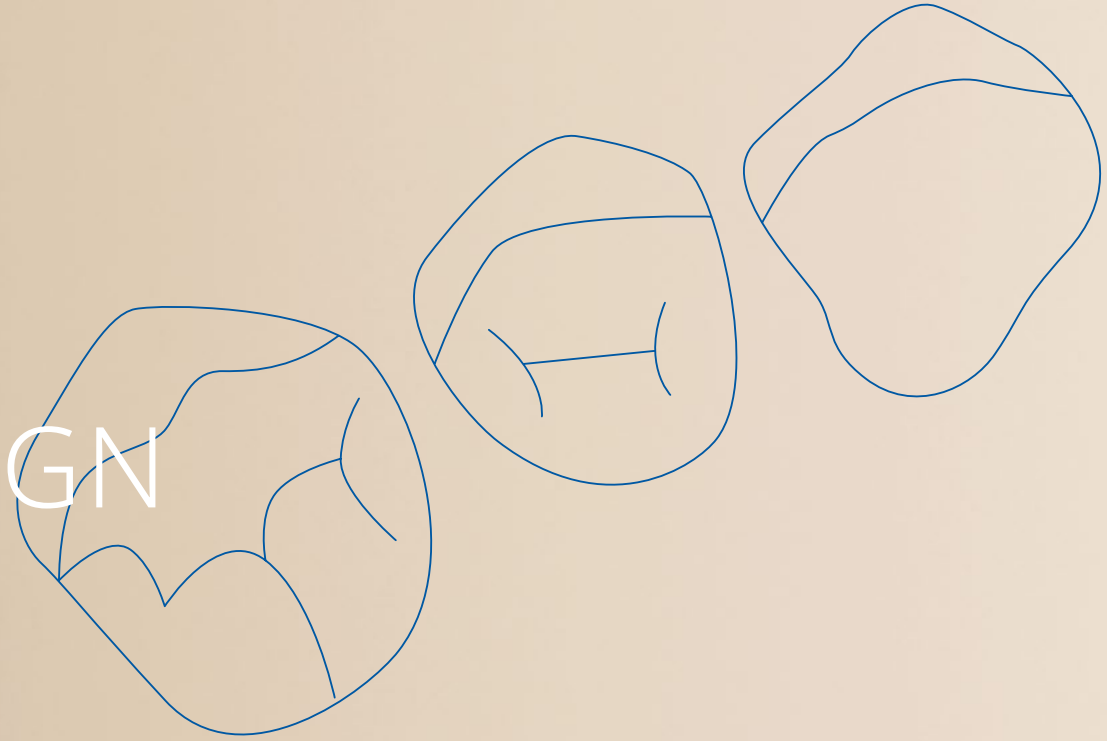
- ✓ In combination with the Zolid Naturals Opacifier, highly translucent materials such as, for example, Zolid FX Multilayer can also be used for discolored/metallic stumps.

RECOMMENDATIONS FOR USE OF AMANN GIRRBACH ZIRCONIUM OXIDE IN TERMS OF STUMP SHADE AND DEGREE OF TRANSLUCENCY





CAD/CAM DESIGN



The foundation for good success

CAD/CAM Design

During the CAD/CAM design of crowns and bridges certain parameters already have to be considered.

STUMP PREPARATIONS

Some important points apply when using a model (plaster, CAD/CAM fabricated model).

Tips & important notes

- ✓ Use scannable plaster or CAD/CAM model material
- ✓ Never mark the preparation margin with a pencil before scanning, this will lead to a deterioration of the scanning results
- ✓ Sharp edges should be blocked out in the CAD software. The cement gap can be increased specifically with the help of the brush instrument (see video "Additional distance brush")

MINIMUM WALL THICKNESSES AND CONNECTOR CROSS-SECTION

It is essential to observe the following minimum wall thicknesses and connector cross-sections when designing Zolid restorations. Minimum wall thickness and connector cross-section depend on the material and indication.

MATERIAL PARAMETERS FOR ZOLID SHT / HT+ / LT – UP TO MAX. 3-PONTIC BRIDGE

INDICATION	ANTERIOR REGION				POSTERIOR REGION			
	Wall thickness (mm)		Connector cross-section SHT	Connector cross-section HT+/LT	Wall thickness (mm)		Connector cross-section SHT	Connector cross-section HT+/LT
	incisal/occlusal	circular			incisal/occlusal	circular		
Single tooth	0.5	0.5	-	-	0.5	0.5	-	-
3-pontic bridges and 1 pontic	0.5	0.5	>12	>7	0.7	0.5	>12	>9

MATERIAL PARAMETERS FOR ZOLID HT+ / LT – UP TO 14-PONTIC BRIDGE*

INDICATION	ANTERIOR REGION			POSTERIOR REGION		
	Wall thickness (mm)		Connector cross-section HT+/LT	Wall thickness (mm)		Connector cross-section HT+/LT
	incisal/occlusal	circular		incisal/occlusal	circular	
As of a 4-pontic bridge and a maximum of 2 pontics	0.7	0.5	>9	1.0	0.7	>12
As of a 4-pontic bridge and a maximum of 3 pontics	0.7	0.5	>9			
Cantilever bridge and one cantilever pontic				1.0	0.7	>12

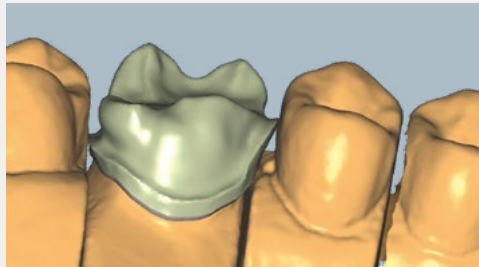
More information in the video "Additional distance brush" bit.ly/450Wwth

* Excluded Zolid DRS
SHT = Zolid FX, Zolid FX Multilayer | HT+ = Zolid HT+, Zolid HT+ Preshade, Zolid Gen-X, Zolid DRS, Zolid Bion | LT = Ceramill ZI

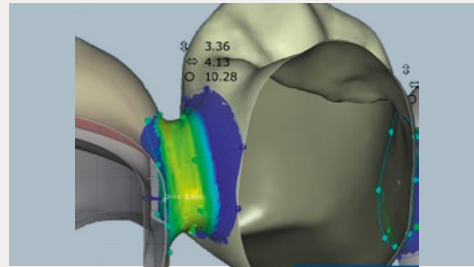
Clean data sets lead to success

Design of the restorations

In addition to minimum wall thickness and connector cross section, which must be strictly complied with during the fabrication of Zolid restorations, it is essential to also observe other points:



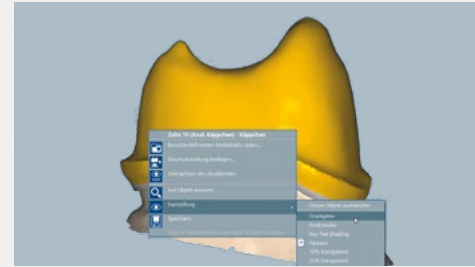
Supportive design in the area of the cusps and the proximal contact for the subsequent veneering ceramic.



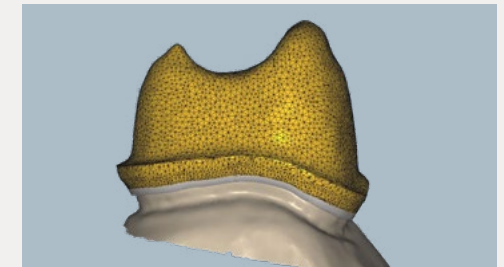
Display of an optimal connector cross-section

TIPS FOR A "CLEAN" DATA SET

To give precise milling results, "clean" STL data sets should be generated and transferred to the CAM software. Once the final design has been defined, the following steps should be followed.



Change display to "wireframe"



- Select the "Smooth" function in the free-form area
- Reduce the amount of smoothing
- Then smooth the surface of the restoration such that the grid surface is as small and even as possible (see video "Adding the wireframe")

Tips & important notes

- ✓ Avoid sharp edges and corners during restoration design
- ✓ Smooth sharp edges again after the function "Shrinking the anatomy"
- ✓ Cusp-supporting design for later use of veneering ceramics
- ✓ Support of the veneering ceramic is also recommended for proximal contacts (see video "Garland proximal saddle")
- ✓ The transition from the connector to the abutment crown should be kept as wide as possible

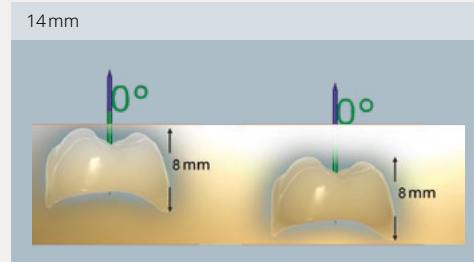
More information in the video "Garland proximal saddle"
bit.ly/3WmC385

More information in the video "Adding the wireframe"
bit.ly/42BNWZS

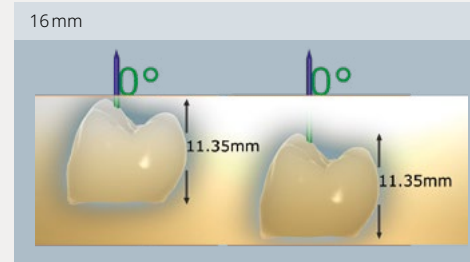
Maintaining proportions

Nesting of Multilayer blanks

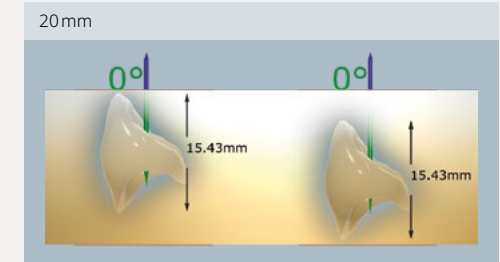
Depending on the nesting position, a total of two tooth shades per blank can be covered with the Zolid FX Multilayer blanks. A few aspects need to be taken into account to ensure that the shade gradient is optimally matched. The choice of the correct blank height in proportion to the restoration height is decisive for success.



Perfect for restorations with the following heights: approx. 6-8mm

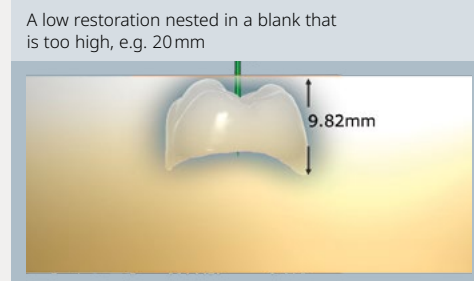


Perfect for restorations with the following heights: approx. 9-12 mm

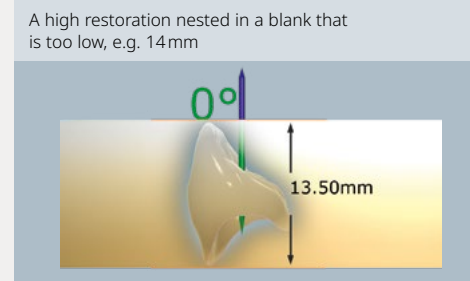


Perfect for restorations with the following heights: approx. 13-16mm

The following applies in general to the nesting of Zolid Bion, Zolid Gen-X and Zolid FX Multilayer blanks: under no circumstances should too low restorations be nested in too high blanks and vice versa, as otherwise the correct coloration with the desired color gradient will not be achieved.



The shade gradient is not present over the whole crown. The tooth shade appears too bright.



The restoration cannot be shifted. The tooth shade appears too dark.

WHEN NESTING RESTORATIONS IN A TYPE ZOLID GEN-X/BION 25 BLANK PLEASE OBSERVE THE FOLLOWING:

Upper half of the blank: Color distribution corresponds to that of a type 16mm blank

Lower half of the blank: No color distribution, but fully stained (Preshade)

Restorations with a gingival section should therefore be nested such that only the gingival section lies in the lower, fully stained half of the blank.



Zolid zirconia ready to meet different requirements

Magnification factor

To compensate for volume shrinkage during the sintering process, restorations made of Zolid zirconia and Ceramill Sintron are always fabricated with a certain allowance. This is defined by entering the so-called magnification factor in the CAM software.

There are various CAM software systems on the market, all of which require different values to be entered. To meet the various requirements, the Zolid zirconia blanks are marked with the following three specifications for the magnification factor:

F-VALUE	V-VALUE	S-VALUE
Special Amann Girrbach magnification factor, only relevant for Amann Girrbach customer/fabrication systems	General magnification factor, given as factor for entry in CAM software	Special magnification factor, very rare – relevant e.g. for Zirkonzahn system
Zolid Gen-X	Zolid Gen-X	Zolid Gen-X
A2 98x16 F 10.27 V1.233 S 18.94	A2 98x16 F 10.27 V1.233 S 18.94	A2 98x16 F 10.27 V1.233 S 18.94

Note: the magnification factors shown are only exemplary values which are not generally valid.



For the perfect fit

Sintering support structures

To avoid problems of distortion and fit, large span bridges should always be sintered with a supporting structure. The following bridge constructions require a sintering support structure under all circumstances:

- Bridge constructions with more than 9 pontics
- Bridge constructions with a pronounced curvature, such as anterior tooth bridges (also for < 9 units)



Selection of a suitable sintering block



The connectors should be arranged as symmetrically as possible

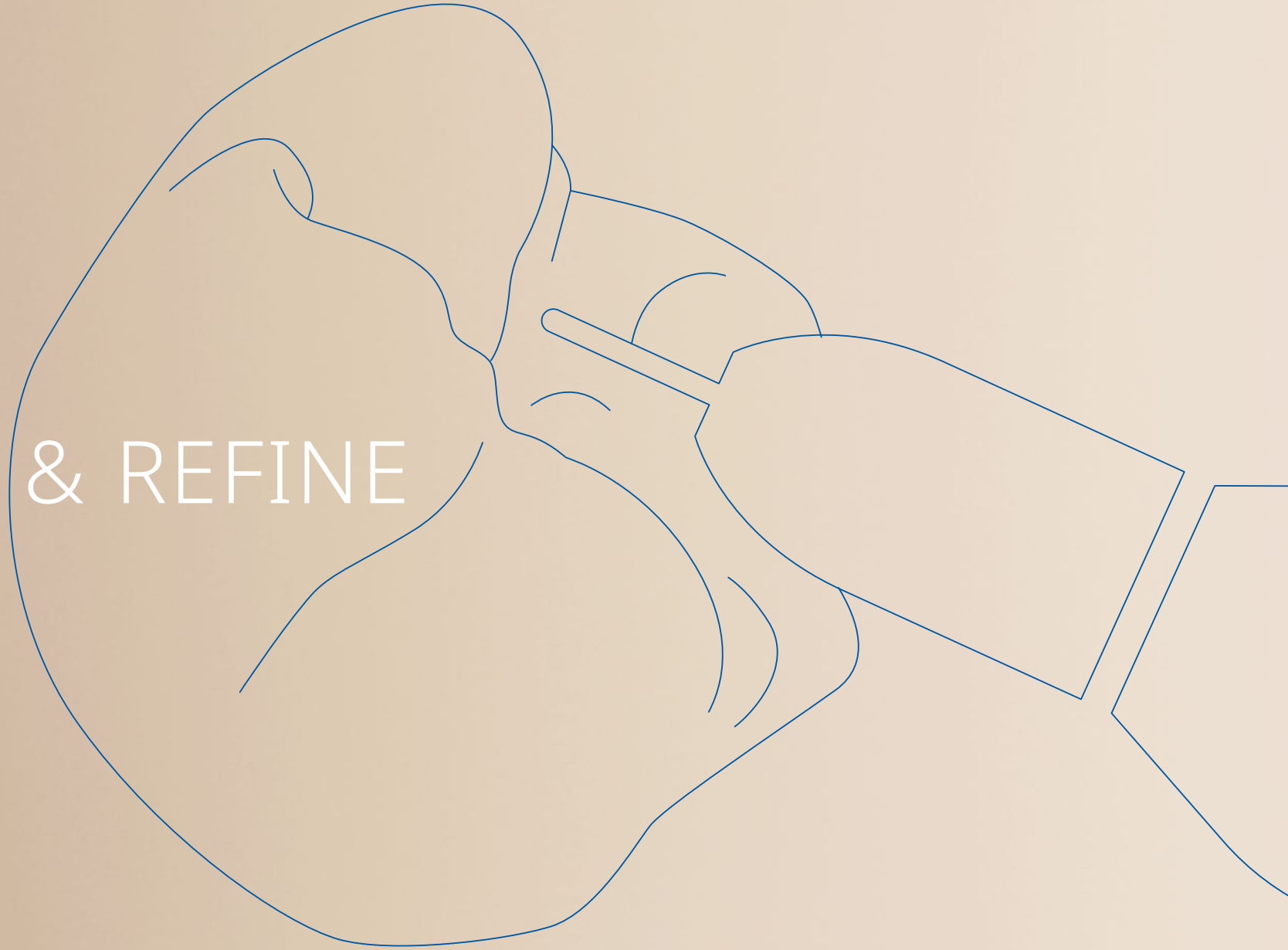
Tips & important notes

- ✓ For the support structure, the “dynamic stabilizer” is selected in the CAM software
- ✓ The terminal bridge pontics must be connected to the sintering block via connectors
- ✓ The number of connectors between the sintering block and the bridge should be at least four
- ✓ The connectors should be arranged as symmetrically as possible
- ✓ The connectors should preferably be positioned between the pontics and the sintering block
- ✓ The connectors to the sintering block should be at least 3 mm thick
- ✓ In the staining technique with liquids, the attachment point of the connector in particular must be stained to a greater extent to ensure that no unstained areas remain after subsequent separation. The sintering support structure must not be stained, as heating could then lead to cracks.



The number of connectors between the sintering block and the bridge should be at least four.

REMOVE & REFINE



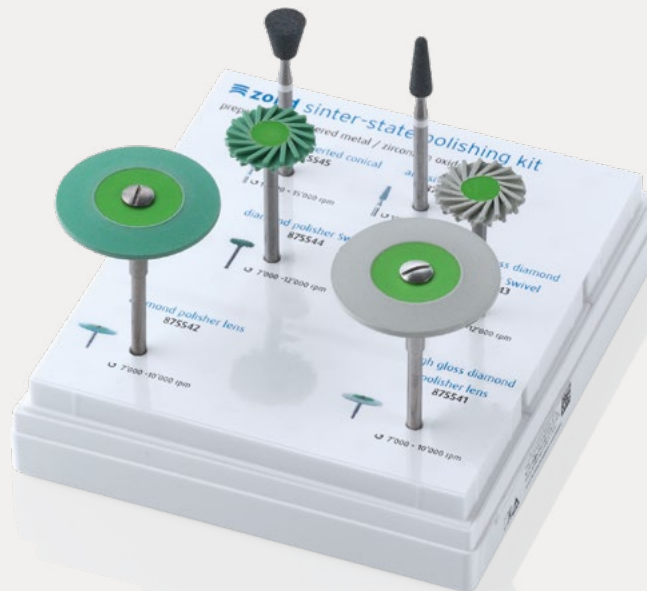
Product recommendations for the perfect finish

Finishing

To prevent damage to the material, correct finishing is essential after the milling process. Here a distinction is made between finishing before sintering and finishing after sintering. The choice of suitable instruments is crucial for success.



Green-State Finishing Kit for finishing zirconia restorations before sintering.



Sinter-State Polishing Kit for finishing zirconia restorations after sintering.



Polishing paste for final high gloss polishing

Step-by-Step

Finishing before sintering

The final material properties have not yet been attained in the white blank state, therefore the milling objects should be handled very carefully. The following basic rules should be observed:



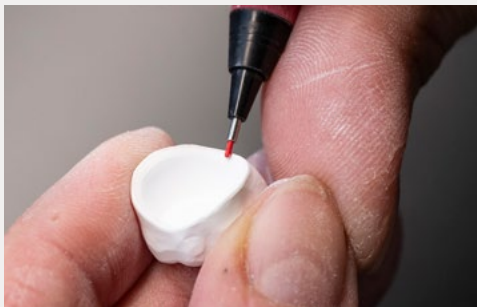
Using the "milling cutter" special tool, the restoration can be separated gently in circular movements.



Coarse grinding of the connectors with the Grenade



Fine grinding of the connectors



Tip: marking the preparation margin with a wax crayon facilitates thinning of the crown margin before sintering



Thinning the margins with the fine universal polisher



The fissure milling cutter enables extremely fine fissures to create a natural morphology.

Tips & important notes

- ✓ Never fall below minimum wall thicknesses and connector cross-sections
- ✓ If possible, all steps for preparation should be carried out before sintering to prevent damage in the material
- ✓ Separate objects from the blank with care and caution. Gently sever the connectors with circular movements. Avoid the formation of wedges
- ✓ Use a turbine or a well-maintained handpiece for separation, avoid any unbalance
- ✓ After finishing, the milled objects should be thoroughly cleaned of any adhering milling dust. Metal-free brushes and oil-free compressed air are suitable for this purpose
- ✓ If the surface of the whites is polished too much, this can lead to poorer absorption of the staining liquid.

Step-by-Step

Finishing after sintering

To prevent damage to the material, correct finishing is essential after sintering. Here, the choice of suitable instruments is also crucial for success.

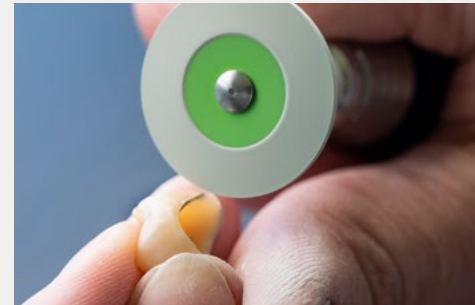


Gentle grinding of the occlusal contacts



Polishing "Lens" or "Swivel"

Tip: The "Swivel" is ideal for difficult to access areas such as fissures, cusps or interdental areas.



High-gloss polishing "Lens" or "Swivel"



Polishing paste for final high gloss polishing

Tips & important notes

- ✓ Processing should be kept to a minimum after sintering
- ✓ Only apply slight pressure
- ✓ Restrict heat generation to a minimum
- ✓ Only use suitable tools
- ✓ If possible finish under water cooling
- ✓ Never re-separate the bridge units with a cutting disc, this applies in particular to the basal areas (tensile stress)
- ✓ All contact points (occlusal & proximal) should always be polished to a high gloss with a multi-stage polishing system to prevent abrasion of the antagonist.

▶ More information in the video "Processing after sintering"
bit.ly/3o4CQxC



INTERNAL FINISH

Tips and Tricks

Processing of liquids

The following information about immersion times and brush applications are recommendations for use and depend on numerous factors. These need to be adjusted individually depending on the workflow and preferences. When using staining liquids for coloring before sintering, some tips can prove to be very useful.

Tips & important notes

- ✓ Remove the remaining zirconium dust from the frames with a brush and compressed air.
- ✓ Only work with metal-free brushes with synthetic hair.
- ✓ The following mixing ratio is recommended for coloring the coloring liquids:
1 drop Liquid Eye per 2 ml coloring liquid.
- ✓ The Opacifier can be diluted with the Dimmer as required, however it can not be mixed with any other liquid of the portfolio.
- ✓ Zolid Natural Liquids must not be mixed with a coloring system from other manufacturers.



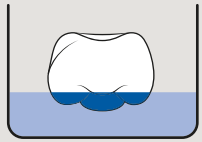
Zirconia Brush Kit (optional) – available in three different sizes for targeted application of the coloring liquids. The brushes are metal-free and the synthetic brush hair is easy to clean.

Immersion technique

The immersion technique allows preparing esthetic restorations with a color gradient in just a few seconds. It is particularly suitable for white zirconias from Amann Girrbach, such as Ceramill ZI and Zolid HT+ White.

PREPARATION

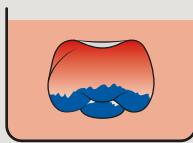
Using Dimmer



Immersion in Dimmer Liquid for approx. 2-4s



Apply Dimmer Liquid with brush



Immerse in Liquid A-D for approx. 5s

Pretreatment of the bridge unit through immersion technique

Prior to immersion, it is recommended to apply a little Dimmer Liquid to the solid pontic to obtain a shade of the pontic after immersion which is not too intensive.



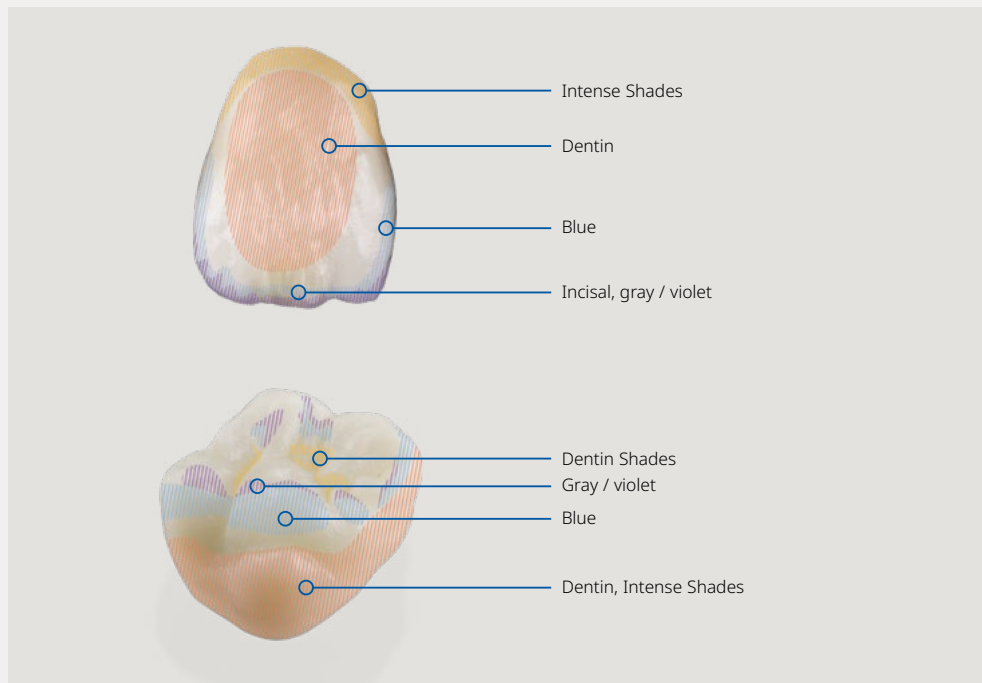
Tips & important notes

- ✓ The recommended immersion time of approx. 5 sec (max. 15 sec) should be observed to achieve the desired shade result and to avoid a possible negative influence on the mechanical properties of the zirconia, e.g. due to insufficient drying and crack formation.
- ✓ To avoid strong infiltration of the liquids with the immersion technique, the areas can be blocked out with Dimmer.



Brush technique

Partial infiltration with the Effect and Intense Liquids can be used to create specific highlights to give restorations even more depth and prior to sintering. This technique is particularly suitable for pre-shaded material such as Zolid HT+ Preshade, Zolid FX Multilayer, Zolid Gen-X and Zolid Bion. A combination of the brush technique and the immersion technique enables additional individualization of white zirconia. In addition, Opacifier can be used to cover discolored stumps and abutments.



Tips & important notes

- **Dentin, Intense Shades** to increase the chroma or to intensify the cervical area
- **Blue, gray, violet** for translucency in the incisal area, the cusp tips as well as in the enamel area of the occlusal surfaces
- **Orange, brown** for a depth effect in the fissures or cervical area
- **Gingiva** is suitable for achieving a pre-shade for gingival areas
- **Opacifier** is used to cover or conceal metallic abutments or discolored stumps

Recommendation:

1-3 brush strokes depending on the desired intensity and wall thickness



▶ More information in the video "Recommendations for the use of staining solutions" bit.ly/3MtVjmO

■ **Gingiva** is suitable for achieving a pre-shade for gingival areas

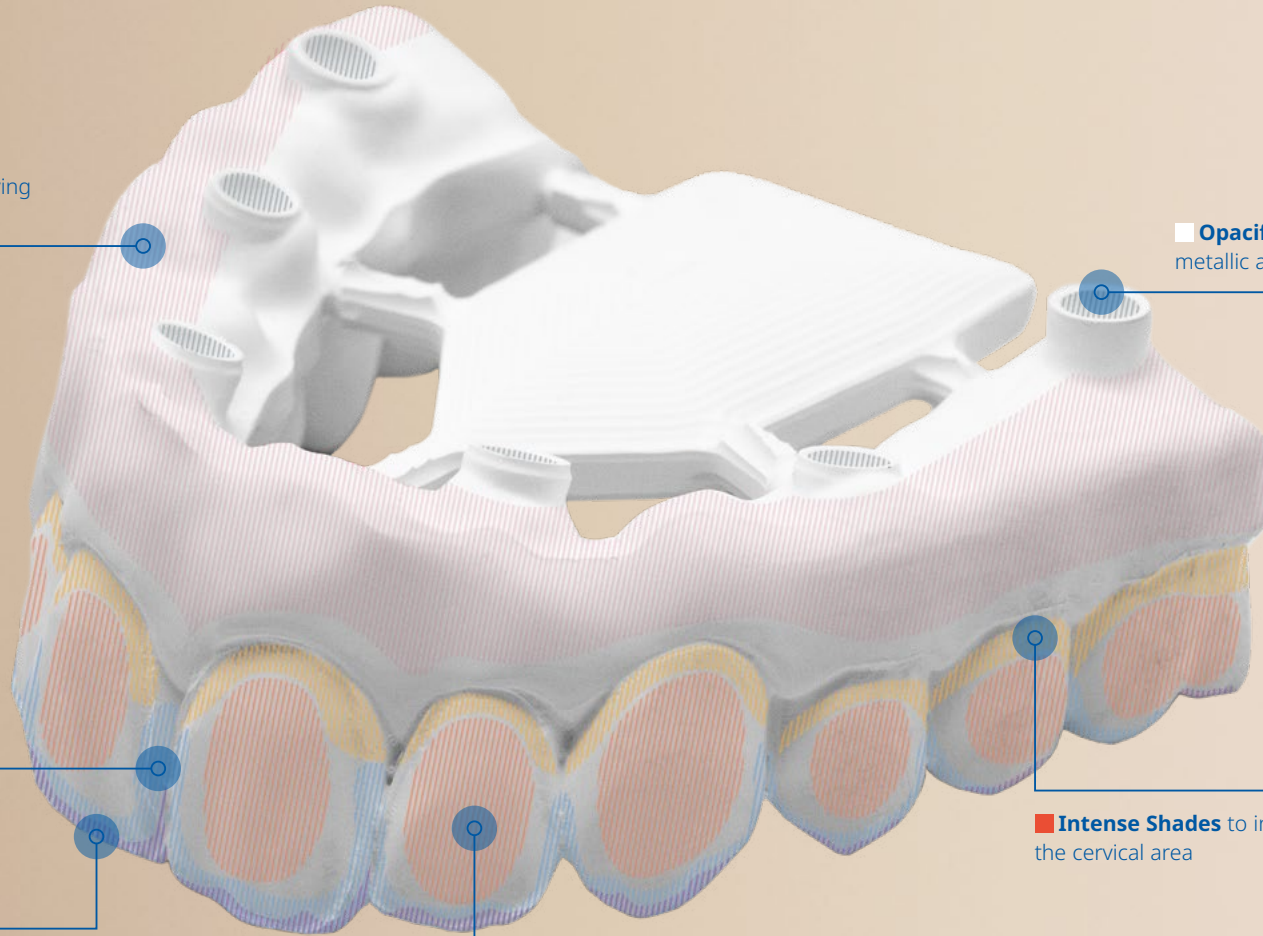
■ **Opacifier** is used to cover or conceal metallic abutments or discolored stumps

■ **Blue** to highlight the lateral ridges

■ **Intense Shades** to intensify the cervical area

■ **Gray, violet** for translucency in the incisal area

■ **Dentin** to increase the chroma of the A-D dentin shades



Pre-drying for perfect results

PRE-DRYING

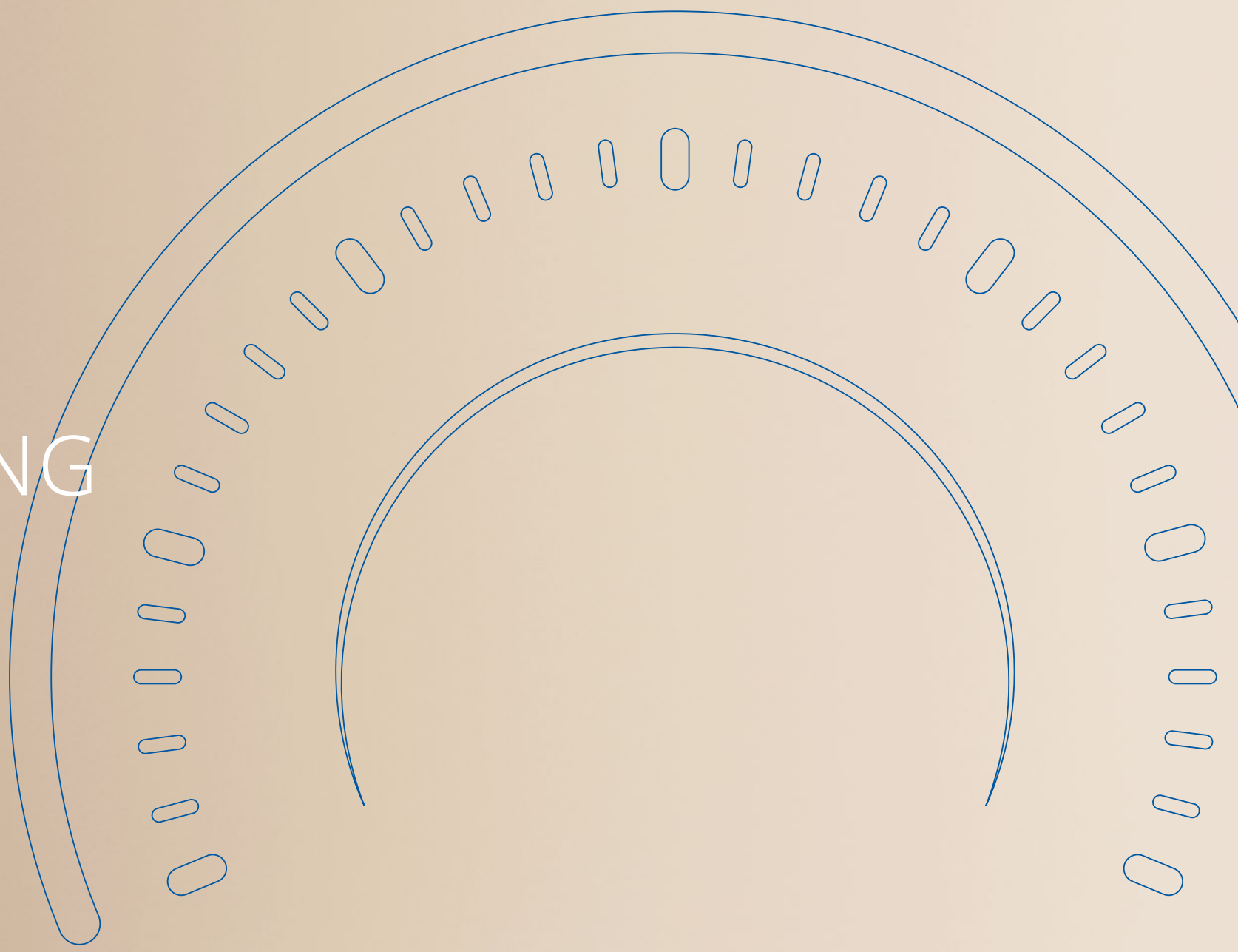
Zolid zirconia restorations should be pre-dried immediately after staining with Zolid Naturals. This acts to fixate the shade and avoid stains (homogenization). The risk of cracks and fissures is also reduced for large objects.

MATERIAL	PRE-DRYING TEMPERATURE	PRE-DRYING DURATION
Zolid zirconia restorations (without sintering block)	80°C	60 min

Tips & important notes

- ✓ Dry restorations sufficiently long before sintering or select sintering programs with a pre-drying function. After staining the Zolid zirconia, a ceramic furnace can be used to dry the restoration. The ceramic furnace and the other ceramic firings are not affected by the drying process. Alternatively, a suitable zirconia dryer with heated circulating air or radiant heat can be used.

SINTERING



Perfectly matched

Sintering of Zolid restorations

Sintering of zirconia is one of the most important process steps in the fabrication of dental restorations. The porous white body condenses under the influence of high temperatures and the blank achieves its final mechanical (strength) and optical (translucency) properties. The standardized sintering temperature of 1450 °C ensures efficient processes. This allows ZI, Zolid HT+, Zolid Gen-X or Zolid FX to be sintered together in a single furnace run. Optimum results are achieved with the Ceramill Therm, Therm S and Therm DRS high-temperature furnaces from Amann Girrbach. These are fully matched to the Zolid portfolio and thus achieve the best possible material properties.

Note: Zolid Bion, unlike the other Zolid zirconias, must be sintered at a temperature of 1500 °C. This is the only way to achieve the best possible esthetic results of the material.

	MATERIAL	SINTERING FURNACE	INDICATION	SINTERING PROGRAM	TIME (APPROX.)
CONVENTIONAL	Zolid Bion Zolid Gen-X Zolid HT+ White Zolid HT+ Preshade Zolid FX Multilayer Ceramill ZI	Ceramill Therm Ceramill Therm 3 Ceramill Therm S	Crowns & bridges	Programm 1 (P1) - standard	8 h
			Single restoration	Programm 2 (P2) - fast	6 h
			Large/solid restoration (with sintering block)	Programm 3 (P3) - slow	10 h
			Sintering program with pre-drying – recommended for large/solid restoration (with sintering block)	Programm 4 (P4)	14 h
	Ceramill Therm S (opti)	Crowns & bridges	Programm 1 (P1) - standard	4.5 h	
		Single restoration	Programm 2 (P2) - fast	3 h	
		Large/solid restoration (with sintering block) < 14 pontic	Programm 3 (P3) - slow	6.5 h	
SPEED	Zolid Gen-X Zolid HT+ White Zolid HT+ Preshade Zolid FX Multilayer Ceramill ZI	Ceramill Therm S Ceramill Therm DRS	up to 3-unit bridges	Programm 9 (P9) Ceramill Zirconia Speed 2h	2 h
HIGH-SPEED	Zolid DRS Zolid Gen-X	Ceramill Therm DRS	up to 3-unit bridges	Programm 1 (P1) Zolid DRS - C&B Dry milled	28 min
				Programm 2 (P2) Zolid DRS - C&B - Wet (Autodry)	31 min
				Programm 3 (P3) Zolid DRS - Single C - Dry milled	21 min
				Programm 4 (P4) Zolid DRS - Single C - Wet (Autodry)	25 min
	Zolid Bion		Programm 5 (P5) Zolid Bion - Single C - Dry milled	45 min	
			Programm 6 (P6) Zolid Bion - Single C - Wet (Autodry)	49 min	
			Zolid DRS Zolid Bion Zolid Gen-X	Programm 7 (P7) Zolid Gen-X/DRS/Bion 1h - C&B - Dry milled	60 min
				Programm 8 (P8) Zolid Gen-X/DRS/Bion 1h - C&B - Wet (Autodry)	60 min

Further information on the different sintering programs of the Ceramill Therm DRS can be found in the document: **Ceramill Therm DRS Program Overview**

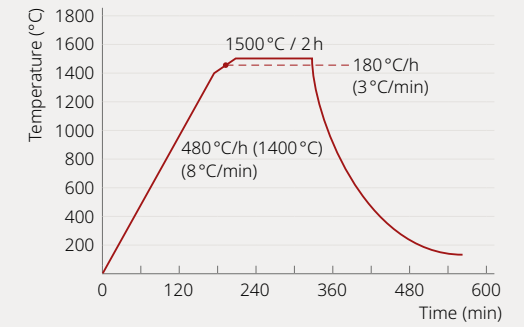
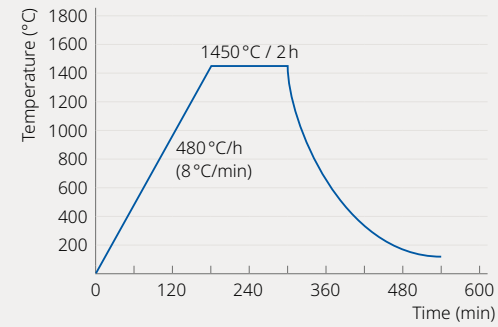
For perfect results

Sintering programs

SINTERING PROGRAM 1 (STANDARD)

Crowns and bridges

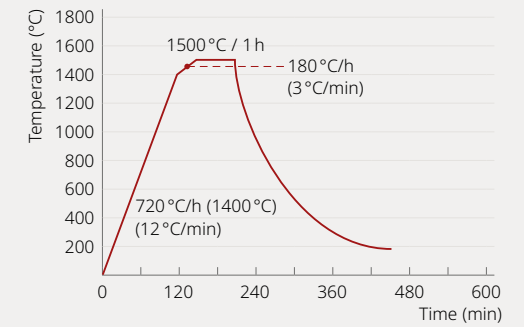
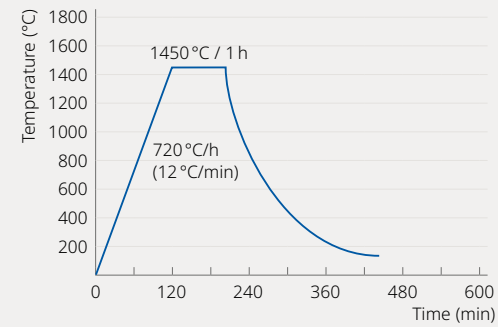
PHASE	TEMPERATURE 1	TEMPERATURE 2	HEATING RATE	HOLDING TIME
Heating phase	20 °C	1450 °C	8 °C/min	-
Holding phase	1450 °C	1450 °C	-	120 min
Heating phase	20 °C	1400 °C	8 °C/min	-
Heating phase	1400 °C	1500 °C	3 °C/min	-
Holding phase	1500 °C	1500 °C	-	120 min



SINTERING PROGRAM 2 (SHORT DURATION)

Only permissible for single tooth restorations

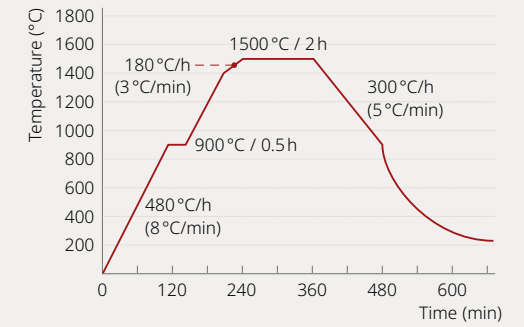
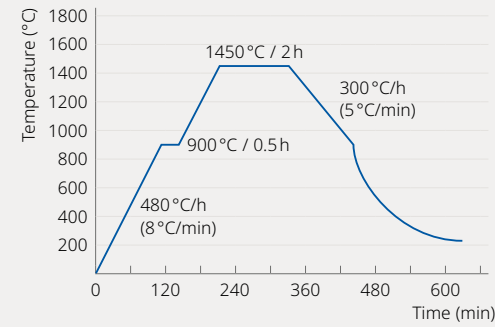
PHASE	TEMPERATURE 1	TEMPERATURE 2	HEATING RATE	HOLDING TIME
Heating phase	20 °C	1450 °C	12 °C/min	-
Holding phase	1450 °C	1450 °C	-	60 min
Heating phase	20 °C	1400 °C	12 °C/min	-
Heating phase	1400 °C	1500 °C	3 °C/min	-
Holding phase	1500 °C	1500 °C	-	60 min



SINTERING PROGRAM 3 (WITH LONG-TERM COOLING)

Recommended for large/solid restorations (with sintering block)

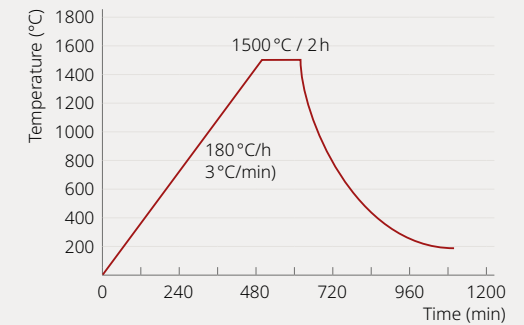
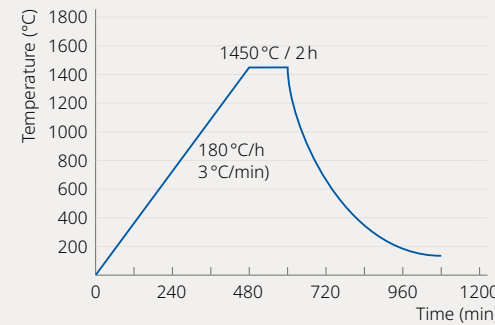
PHASE	TEMPERATURE 1	TEMPERATURE 2	HEATING RATE	HOLDING TIME
Heating phase	20 °C	900 °C	8 °C/min	-
Holding phase	900 °C	900 °C	-	30 min
Heating phase	900 °C	1450 °C	8 °C/min	-
Holding phase	1450 °C	1450 °C	-	120 min
Cooling phase	1450 °C	900 °C	5 °C/min	-
Heating phase	20 °C	900 °C	8 °C/min	-
Holding phase	900 °C	900 °C	-	30 min
Heating phase	900 °C	1400 °C	8 °C/min	-
Heating phase	1400 °C	1500 °C	3 °C/min	-
Holding phase	1500 °C	1500 °C	-	120 min
Cooling phase	1500 °C	900 °C	5 °C/min	-



SINTERING PROGRAM 4 (WITH PRE-DRYING)

Recommended for large/solid restorations (with sintering block),
for example, infiltrated with staining liquids.

PHASE	TEMPERATURE 1	TEMPERATURE 2	HEATING RATE	HOLDING TIME
Heating phase	20 °C	1450 °C	3 °C/min	-
Holding phase	1450 °C	1450 °C	-	120 min
Cooling phase	1450 °C	900 °C	5 °C/min	-
Heating phase	20 °C	1500 °C	3 °C/min	-
Holding phase	1500 °C	1500 °C	-	120 min
Cooling phase	1500 °C	900 °C	5 °C/min	-



■ Ceramill ZI, Zolid FX Multilayer, Zolid Gen-X, Zolid HT+ White, Zolid HT+ Preshade
■ Zolid Bion



EXTERNAL FINISH

Small helpers with a big impact

Final characterization after sintering

After sintering, Zolid restorations can be further individualized and refined by applying veneering ceramics or stains. Here, too, the choice of the right aids is crucial for success.



The "Optimum" and "Revolution" ceramic brushes are ideally suited for the application of ceramic materials and stains. "Optimum Brush Line" also features a built-in steel spring.



Instrument Bench Stand: the ideal storage unit for the ceramic brushes "Optimum" and "Revolution".



CAD Artistry Palette with 11 separate compartments for storage and mixing of ceramic materials with optimal consistency.



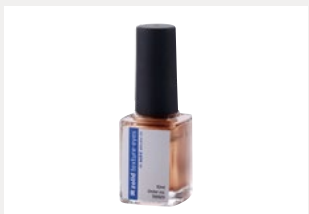
Honey Comb Stand: the ceramic honeycomb stand for firing Zolid restorations including special ceramic pins for implant restorations.



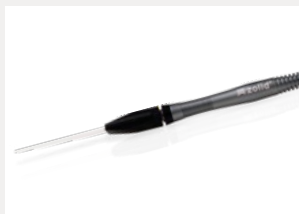
Crown Holder Complete Kit: provides excellent hold of the restorations during layering or painting. The material does not leave any sticky residue and can be used several times.



Peg Fix: the fire-resistant firing paste made of PCW fibres, is suitable for firing ceramic and metallic restorations with a stable hold during the firing process.



Texture Eyes: the copper paste visualizes the morphology and surface texture of crowns, bridges or plaster models. The quick-drying, alcohol-free solution can be removed easily later on using a steam jet.



Ceramic spatula made of zirconia for optimal and contamination-free mixing of ceramic materials.



Zolid Shade Guide for perfect shade determination for the restoration.

More information in the video "External Finish"
bit.ly/41Afg9v

That individual touch for every restoration

System solution Creation Magic Colour

Magic Colour from Creation is used for accentuating and surface painting of monolithic and partially reduced restorations. Be it from white blanks or work made from Zolid HT+ Preshades, Zolid Gen-X Multilayer or Zolid FX Multilayer or Zolid Bion. Pre-shaded, monochrome restorations in the basic shades made of Zolid HT+ Preshades are finalized after sintering with the staining system to achieve the final tooth shade.

The system consists of the following components:

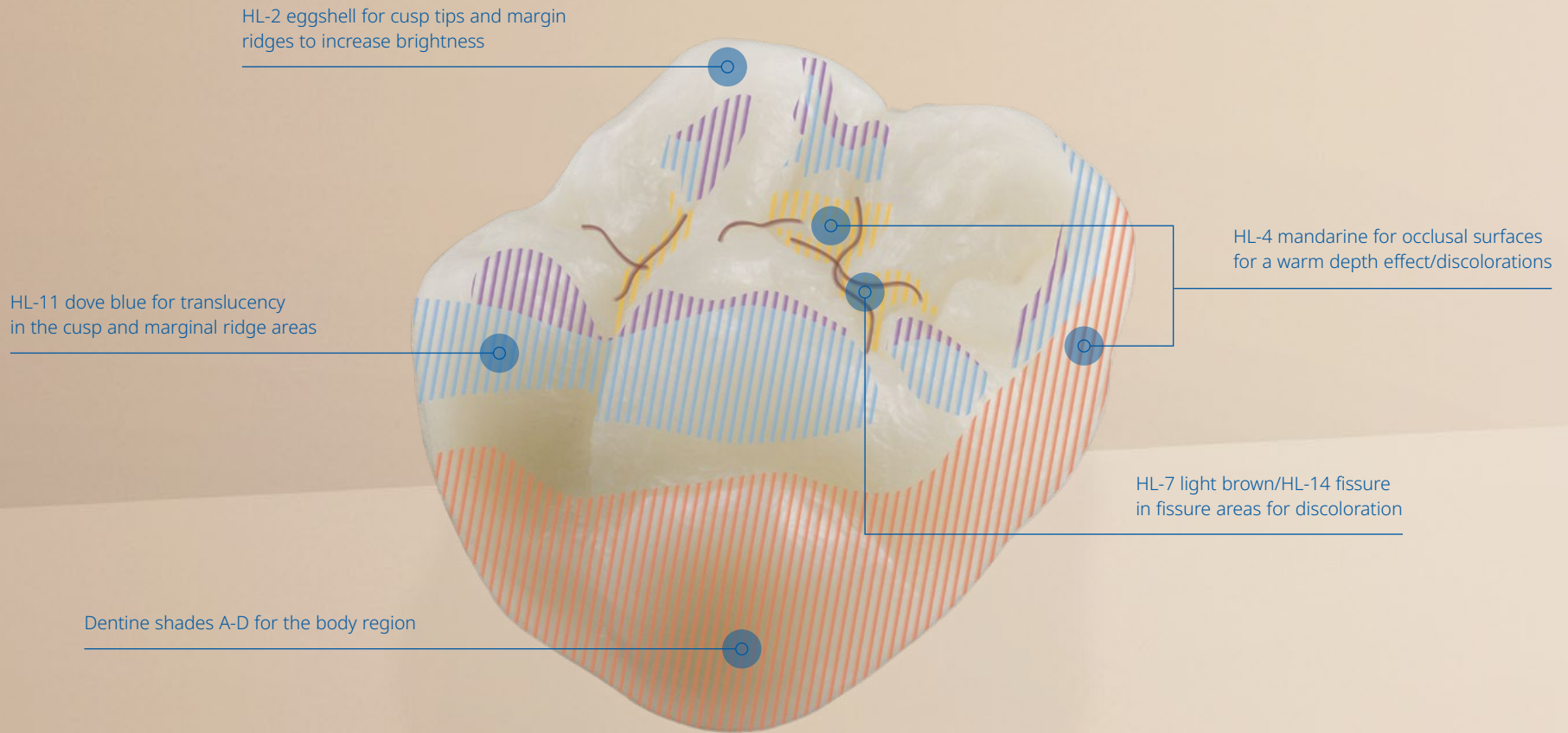
- Staining powder for the individual coloring of dental and gingival restorations
- Glazing powder with and without fluorescence for sealing surfaces
- A mixing liquid for staining powder
- A special liquid for micro-layering

Tips & important notes

- ✓ Thoroughly clean the restorations before applying stains and glazes, e.g. by blasting with aluminum oxide (recommended grain size: 50-110 µm at max. 1.5 bar).
- ✓ Highlights such as blue, violet or gray can for example be used to individualize areas such as incisal edges and cusp tips.
- ✓ Highlights such as orange or brown can for example be used to individualize areas such as fissures or proximal contacts.



i For more information on the use of Creation Magic Colour, you can find the Instruction Manual under the product-specific download area on: www.creation-willigeller.com



Special shades, "Gingiva Shades" (GS-1, GS-2, GS-3), for the gingival area also allow restorations to be fabricated with a gingival section.

Important notes on the firing procedure

Creation Magic Colour

The duration of the pre-drying time, the temperature rise, the closing time, the final temperature and the long-term cooling depend on the size of the restoration. Large-volume restorations require longer pre-drying, slower preheating, firing at a higher temperature and slow cooling.



Tips & important notes

- ✓ Magic Colour stains are mixed on a glass or ceramic mixing plate.
- ✓ To achieve better esthetics, the characterizing restoration can be veneered with a thin layer of veneering ceramic (micro-layering).
- ✓ If the desired shade has not been achieved, it can be corrected by firing again

i Firing tables for the various indications and application options can be found in the Creation Magic Colour Instruction Manual under the product-specific download section on: www.creation-willigeller.com

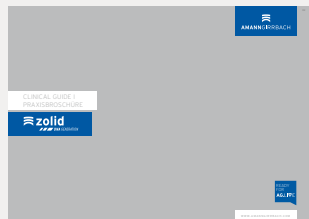


TRAINING

More information and training courses

The route to esthetic success

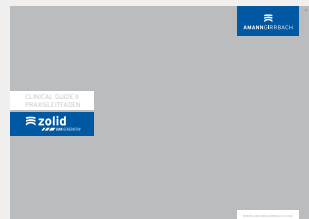
A product is only complete if one knows how to use it correctly. For this reason, Amann Girrbach offers comprehensive information and training within the context of Esthetic Management for the use of the Zolid zirconia product range, to ensure that esthetics are not happenstance. In combination with the individual staining concepts, the didactically prepared print and online media as well as courses ensure the desired outcomes right from the start.



CLINICAL GUIDE I

Practice brochure

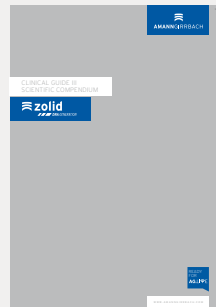
All important information about Zolid zirconia.



CLINICAL GUIDE II

Practice guideline

Preparation, luting, surface polishing



CLINICAL GUIDE III

Scientific compendium

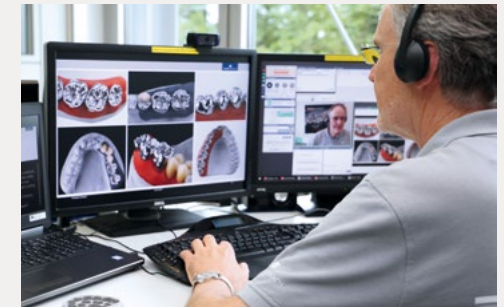
Compendium of Zolid zirconia studies



HANDS-ON COURSES

For perfect esthetics

Precisely targeted processing of the materials is the focus of our courses.



ONLINE WEBINARS

Easy and efficient

Webinars save time and create new opportunities for training and further education. Zolid users can find many fascinating webinars on zirconia in the AG.Academy.

Overview of all videos
youtube.com/@AmannGirrbachHQ



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academy.amanngirrbach.com/en



About Amann Girschbach

As a pioneer in dental CAD/CAM technology, Amann Girschbach is one of the leading innovators and preferred full-service providers in digital dental prosthetics. With its high degree of expertise in development and commitment to customer orientation, the company offers sophisticated product and workflow solutions. In addition to innovative scanning and production solutions, in which software systems and the AG.Live cloud platform play a central role, the portfolio is rounded off by high-quality materials, a dedicated technical service with a global helpdesk as well as education and training courses. Its customers in around 100 countries are made up of dental practices, practice laboratories and dental laboratories. A high standard of quality and sustainability are decisive value creation criteria for Amann Girschbach, which is why the company has housed its entire development and production at its headquarters in Mäder, Austria. In addition, Amann Girschbach operates sales offices in Pforzheim (Germany), Verona (Italy), Jossigny (France), Charlotte (USA), Singapore (city), Curitiba (Brazil), Beijing (China) as well as cooperations in Kyoto (Japan) and Beirut (Lebanon).



We would be pleased to also inform you personally. Simply contact us!

On our website you will find further information about our locations and contact details so that you can reach us quickly.

bit.ly/ag-contact ↗

