



**elaboro<sup>®</sup> zirconia**

*that's all you need*

zirconia

# CONTENT

## Zirconia Multilayer Blanks

ST ML - the allrounder	3
4D MF - combines function & esthetics	4
4D ME - more esthetics for all	5
TT ME - the best anterior solution	6

## Zirconia Precolored Blanks

ST P - for homogenous framework	7
TT P - for most translucent framework	8

## Zirconia White Blanks

ST - for individual coloring	9
TT - for maximum translucency	10
zirconia indication guide	11
blank system guide	12
coloring and effect liquids	13
LiSi CONDITIONER	14
LiSi PURE	15

# DEAR CUSTOMER

This catalog shows you the best zirconia solutions in practice, especially in terms of cost effectiveness and esthetics. Combined with our globally unique lithium-silicat-surface finish you will get the best full contour zirconia dentures with highest customer satisfaction and additional benefits, that's all you need.

Yours sincerely,  
Michael Schmidt  
Founder and CEO



# ST ML

precolored gradient

# MULTILAYER

## Physical Characteristics

Density after sintering	6.08±0.01g/cm <sup>3</sup>
CTE(25-500°C)	(10.5± 1.0)×10 <sup>-6</sup> K <sup>-1</sup>
Content of monoclinic phases on the surface after accelerated aging	<15 %
Chemical solubility after sintering	<100µg/cm <sup>2</sup>
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C we recommend 1530°C



- Suitable for all indications, no size limits
- Multilayer gradient with all 16 Vita shades



**TRANSLUCENCY**  
39-43%



**STRENGTH**  
1100MPa

**A1 | A2 | A3 | A3,5 | A4 | B1 | B2 | B3**

**B4 | C1 | C2 | C3 | C4 | D2 | D3 | D4**

## Chemical Composition

ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub>	>97.7 %
Y <sub>2</sub> O <sub>3</sub>	4.4 %-5.5 %
Al <sub>2</sub> O <sub>3</sub>	<0.5 %
Fe <sub>2</sub> O <sub>3</sub>	<0.3 %
Er <sub>2</sub> O <sub>3</sub>	<1.0 %
Others oxides	<1.2 %

elaboro® Zirconia is market-proven: edge-stable, highly resilient, color-stable, easy and safe to bond like glass ceramics – elaboro® LiSi CONDITIONER makes it possible!

With elaboro® LiSi PURE you achieve the synthesis of unrestricted functionality and esthetic perfection of lithium silicate.



**No Chipping!  
Guarantee.**



# 4D ESTHETIC

precolored / preshaded

# MULTILAYER

## Physical Characteristics

Density after sintering	>6.0g/cm <sup>3</sup>
CTE(25-500°C)	(10.5± 1.0)x10 <sup>-6</sup> K <sup>-1</sup>
Content of monoclinic phases on the surface after accelerated aging	<5 %
Chemical solubility after sintering	<100µg/cm <sup>2</sup>
Radioactivity	<0. 1Bq/g
Sintering temperature	1430-1550°C we recommend 1480°C



- Suitable for all indications, no size limits
- Multilayer gradient with all 16 Vita + 2 bleaching shades

LIGHT ↑ Dark SHADE	727 MPa ↑ 1000 MPa STRENGTH	48,8 % ↑ 47 % TRANSLUCENCY	3.5 MPa · m <sup>1/2</sup> ↑ 4.3 MPa · m <sup>1/2</sup> TOUGHNESS	5Y - PSZ ↑ 4Y - PSZ STABILIZING
-----------------------------	--------------------------------------	-------------------------------------	--	--

A1 | A2 | A3 | A3,5 | A4 | B1 | B2 | B3

B4 | C1 | C2 | C3 | C4 | D2 | D3 | D4

## Chemical Composition

ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub>	>96.5 %
Y <sub>2</sub> O <sub>3</sub>	5.8 %-9.7 %
Al <sub>2</sub> O <sub>3</sub>	<0.5 %
Fe <sub>2</sub> O <sub>3</sub>	<0.5 %
Er <sub>2</sub> O <sub>3</sub>	<2.0 %
Others oxides	<0.5 %

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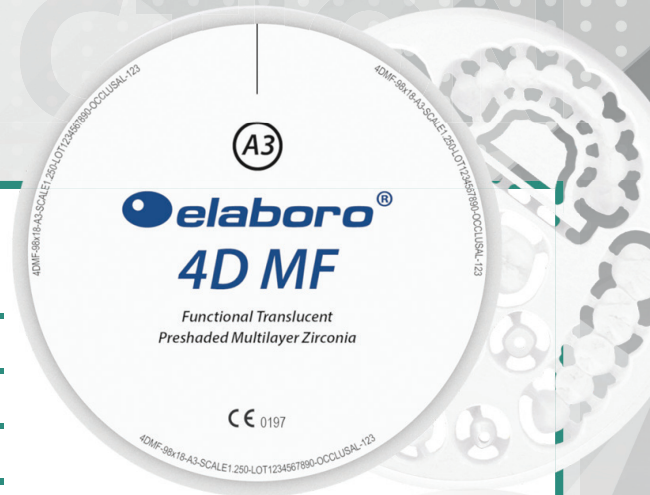
# 4D FUNCTION

precolored gradient






# MULTILAYER

## Physical Characteristics

Density after sintering	>6.0g/cm <sup>3</sup>
CTE(25-500°C)	(10.5± 1.0)x10 <sup>-6</sup> K <sup>-1</sup>
Content of monoclinic phases on the surface after accelerated aging	<5 %
Chemical solubility after sintering	<100µg/cm <sup>2</sup>
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C we recommend 1480°C



- Suitable for all indications, no size limits
- Available for all 16 Vita shades

 LIGHT Dark SHADE	 1027 MPa 1300 MPa STRENGTH	 46,6 % 43 % TRANSLUCENCY	 4.3 MPa · m <sup>1/2</sup> 5.1 MPa · m <sup>1/2</sup> TOUGHNESS	 4Y - PSZ 3Y - PSZ STABILIZING
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**A1 | A2 | A3 | A3,5 | A4 | B1 | B2 | B3**  
**B4 | C1 | C2 | C3 | C4 | D2 | D3 | D4**

## Chemical Composition

ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub>	>96.5 %
Y <sub>2</sub> O <sub>3</sub>	5.8 %-9.7 %
Al <sub>2</sub> O <sub>3</sub>	<0.5 %
Fe <sub>2</sub> O <sub>3</sub>	<0.5 %
Er <sub>2</sub> O <sub>3</sub>	<2.0 %
Others oxides	<0.5 %

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# TT ME

precolored gradient

## MULTILAYER

### Physical Characteristics

Density after sintering	>6.0g/cm <sup>3</sup>
CTE(25-500°C)	(10.5± 1.0)x10 <sup>-6</sup> K <sup>-1</sup>
Content of monoclinic phases on the surface after accelerated aging	<5 %
Chemical solubility after sintering	<100µg/cm <sup>2</sup>
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C we recommend 1480°C



- Suitable for anterior indications
- Available for all 16 Vita + 2 bleaching shades



TRANSLUCENCY  
42-49%



STRENGTH  
600MPa

BL1 | BL2 | A1 | A2 | A3 | A3,5 | A4 | B1

B2 | B3 | B4 | C1 | C2 | C3 | C4 | D2 | D3 | D4

### Chemical Composition

ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub>	>96.5 %
Y <sub>2</sub> O <sub>3</sub>	5.8 %-9.7 %
Al <sub>2</sub> O <sub>3</sub>	<0.5 %
Fe <sub>2</sub> O <sub>3</sub>	<0.5 %
Er <sub>2</sub> O <sub>3</sub>	<2.0 %
Others oxides	<0.5 %

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# ST P precolored

color

## Physical Characteristics

Density after sintering	6.08±0.01g/cm <sup>3</sup>
CTE(25-500°C)	(10.5± 1.0)x10 <sup>-6</sup> K <sup>-1</sup>
Content of monoclinic phases on the surface after accelerated aging	<15 %
Chemical solubility after sintering	<100µg/cm <sup>2</sup>
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C we recommend 1530°C



- Suitable for all indications, no size limits
- precolored with all 16 Vita shades



**TRANSLUCENCY**  
39-43%



**STRENGTH**  
1100MPa

**A1 | A2 | A3 | A3,5 | A4 | B1 | B2 | B3  
B4 | C1 | C2 | C3 | C4 | D2 | D3 | D4**

## Chemical Composition

ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub>	>97 %
Y <sub>2</sub> O <sub>3</sub>	4.4 %-5.5 %
Al <sub>2</sub> O <sub>3</sub>	<0.5 %
Fe <sub>2</sub> O <sub>3</sub>	<0.3 %
Er <sub>2</sub> O <sub>3</sub>	<1.0 %
Others oxides	<1.2 %

elaboro® Zirconia is market-proven: edge-stable, highly resilient, color-stable, easy and safe to bond like glass ceramics – elaboro® LiSi CONDITIONER makes it possible!

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Guarantee.**



# TTP precolored

color

## Physical Characteristics

Density after sintering	>6.0g/cm <sup>3</sup>
CTE(25-500°C)	(10.5± 1.0)×10 <sup>-6</sup> K <sup>-1</sup>
Content of monoclinic phases on the surface after accelerated aging	<5 %
Chemical solubility after sintering	<100µg/cm <sup>2</sup>
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C we recommend 1480°C



- Suitable for all full contour indications
- precolored with 16 Vita + 2 bleaching shades



TRANSLUCENCY  
43-49%



STRENGTH  
1000MPa

BL1 | BL2 | A1 | A2 | A3 | A3,5 | A4 | B1

B2 | B3 | B4 | C1 | C2 | C3 | C4 | D2 | D3 | D4

## Chemical Composition

ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub>	>96.5 %
Y <sub>2</sub> O <sub>3</sub>	5.8%-9.7 %
Al <sub>2</sub> O <sub>3</sub>	<0.5 %
Fe <sub>2</sub> O <sub>3</sub>	<0.5 %
Er <sub>2</sub> O <sub>3</sub>	<2.0 %
Others oxides	<0.5 %

elaboro® Zirconia is market-proven: edge-stable, highly resilient, color-stable, easy and safe to bond like glass ceramics – elaboro® LiSi CONDITIONER makes it possible!

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# ST WHITE

## Physical Characteristics

Density after sintering	6.08±0.01g/cm <sup>3</sup>
CTE(25-500°C)	(10.5± 1.0)x10 <sup>-6</sup> K <sup>-1</sup>
Content of monoclinic phases on the surface after accelerated aging	<15 %
Chemical solubility after sintering	<100µg/cm <sup>2</sup>
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C we recommend 1530°C



- Suitable for all indications, no size limits
- Excellent for framework and anatomic full contour



**TRANSLUCENCY**  
43%



**STRENGTH**  
1200MPa

For dyeing, please use our coloring and effect liquids.

## Chemical Composition

ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub>	>99 %
Y <sub>2</sub> O <sub>3</sub>	4.5 %-6 %
Al <sub>2</sub> O <sub>3</sub>	<0.5 %
Other oxides	<1.2 %

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# TT WHITE

## Physical Characteristics

Density after sintering	>6.0g/cm <sup>3</sup>
CTE(25-500°C)	(10.5± 1.0)×10 <sup>-6</sup> K <sup>-1</sup>
Content of monoclinic phases on the surface after accelerated aging	<5 %
Chemical solubility after sintering	<100µg/cm <sup>2</sup>
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C we recommend 1450°C



- Suitable for anterior indications up to 3 units
- Superior translucency



**TRANSLUCENCY**  
49%



**STRENGTH**  
600MPa

For dyeing, please use our coloring and effect liquids.

## Chemical Composition

ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub>	>96.5 %
Y <sub>2</sub> O <sub>3</sub>	5.8 %-9.7 %
Al <sub>2</sub> O <sub>3</sub>	<0.5 %
Fe <sub>2</sub> O <sub>3</sub>	<0.5 %
Er <sub>2</sub> O <sub>3</sub>	<2.0 %
Other oxides	<0.5 %

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# elaboro<sup>®</sup> zirconia

## INDICATION GUIDE

INDICATIONS	<i>elaboro<sup>®</sup> zirconia MULTILAYER</i>				<i>PRE-COLORED</i>		<i>WHITE</i>	
	TT ME	4D ME	4D MF	ST ML	TT P	ST P	TT	ST
CROWN	✓	✓	✓	✓	✓	✓	✓	✓
BRIDGE	✓	✓	✓	✓	✓	✓	✓	✓
FRAME	✓	✓	✓	✓	✓	✓	✓	✓
<4 UNITS BRIDGE		✓	✓	✓	✓	✓	✓	✓
<6 UNITS BRIDGE			✓	✓		✓		✓
>7 UNITS BRIDGE		✓	✓	✓		✓		✓
BRUX CROWN		✓	✓	✓		✓		✓
CANTILEVER BRIDGE			✓	✓		✓		✓
INLAY/ONLAY (FRAME)			✓	✓		✓		✓
INLAY/ONLAY (FULL CONTOUR)	✓	✓	✓	✓	✓	✓	✓	
INLAY/ONLAY BRIDGE (FRAME)			✓	✓		✓		✓
INLAY/ONLAY BR. (FULL CONTOUR)	✓	✓	✓	✓	✓	✓	✓	✓
MARYLAND BRIDGE (1 WING)			✓	✓		✓		✓
MARYLAND BRIDGE (2 WINGS)			✓	✓		✓		✓
TELECOPIC CROWN			✓	✓		✓		
VENEER (FULLCONTOUR)	✓	✓	✓		✓		✓	
ATTACHMENT				✓		✓		✓
BAR				✓		✓		✓
INDIVIDUAL ABUTMENT		✓	✓	✓		✓		✓
ROOT PIN			✓	✓		✓		✓
ROOT TOOTH		✓	✓	✓		✓		✓
<b>FINISH</b>								
LiSi-PURE FINISHING	✓	✓	✓	✓	✓	✓	✓	✓
STAIN & GLAZE	✓	✓	✓	✓	✓	✓	✓	✓
CERAMIC VENEERING	✓	✓	✓	✓	✓	✓	✓	✓
<b>FIXING</b>								
LiSi CONDITIONER / ADHESIV FIXING	✓	✓	✓	✓	✓	✓	✓	✓
CONVENTIONAL CEMENTATION	✓	✓	✓	✓	✓	✓	✓	✓

# elaboro® zirconia BLANK SYSTEM GUIDE

SYSTEM COMPATIBILITY		elaboro® zirconia MULTILAYER				PRE-COLORED		WHITE	
		TT ME	4D ME	4D MF	ST ML	TT P	ST P	TT	ST
<b>D98 Open Milling System</b>									
	D98x10	✓	✓	✓	✓	✓	✓	✓	✓
	D98x12	✓	✓	✓	✓	✓	✓	✓	✓
	D98x14	✓	✓	✓	✓	✓	✓	✓	✓
	D98x16	✓	✓	✓	✓	✓	✓	✓	✓
	D98x18	✓	✓	✓	✓	✓	✓	✓	✓
	D98x20	✓	✓	✓	✓	✓	✓	✓	✓
	D98x22	✓	✓	✓	✓	✓	✓	✓	✓
	D98x25	✓	✓	✓	✓	✓	✓	✓	✓
<b>D95</b>									
	D95x10	✓	✓	✓	✓	✓	✓	✓	✓
	D95x12	✓	✓	✓	✓	✓	✓	✓	✓
	D95x14	✓	✓	✓	✓	✓	✓	✓	✓
	D95x16	✓	✓	✓	✓	✓	✓	✓	✓
	D95x18	✓	✓	✓	✓	✓	✓	✓	✓
	D95x20	✓	✓	✓	✓	✓	✓	✓	✓
	D95x22	✓	✓	✓	✓	✓	✓	✓	✓
	D95x25	✓	✓	✓	✓	✓	✓	✓	✓
<b>98x71</b>									
	98/71x10	✓	✓	✓	✓	✓	✓	✓	✓
	98/71x12	✓	✓	✓	✓	✓	✓	✓	✓
	98/71x14	✓	✓	✓	✓	✓	✓	✓	✓
	98/71x16	✓	✓	✓	✓	✓	✓	✓	✓
	98/71x18	✓	✓	✓	✓	✓	✓	✓	✓
	98/71x20	✓	✓	✓	✓	✓	✓	✓	✓
	98/71x22	✓	✓	✓	✓	✓	✓	✓	✓
	98/71x25	✓	✓	✓	✓	✓	✓	✓	✓

✓ no minimum quantities required

✓ ask for minimum quantities per size and color

## Coloring Liquids

are used for individual coloring of our white zirconia types by dipping or brushing technique

elaboro® Coloring Liquid	30 ml	50 ml	100 ml
for ST- Zirconia white A1 – D4	✓	✓	✓
for TT- Zirconia white A1 - D4	✓	✓	✓



## Effect Liquids

are used for individual coloring of our white zirconia types by brushing



elaboro® Effect Liquid	5 ml	20 ml
for all Zirconia types P1, P2, P3, G1, G2, O1, O2, TO	✓	✓



- combining the strengths of  $ZrO_2$  with the aesthetics of  $LiSi_2$
- maximum bonding due to Diffusion and optimally tuned CTE
- unrestricted for all indications
- no size restrictions
- no chipping



# LITHIUMSILICATE VENEERING

*Ceramic enamel for Zirconia restorations*



## With the elaboro LiSi Conditioner, Zirconia can be bonded just as easily and safely as LiSi<sub>2</sub>

- optimal preparation of ZrO<sub>2</sub> for adhesive bonding
- simply treat the modified bonding surface as LiSi<sub>2</sub>
- the adhesive bond is loadable like LiSi<sub>2</sub> restorations
- no limits: can be used for all sizes and indications
- ideal for minimally invasive restorations



[www.elaboro.de](http://www.elaboro.de)

# The finest SCANSPRAY

for the best scanning results

- free of TiO<sub>2</sub>
- very long range
- matting layer thickness less than 1 µm
- exact contours on all surfaces and materials

elaboro<sup>®</sup> SCANSPRAY 100ml:  
elaboro<sup>®</sup> SCANSPRAY 200ml:

REF: ela 5095-100  
REF: ela 5095-200



With a reference to our local dealer

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