

# Zirconia Dental Ceramics

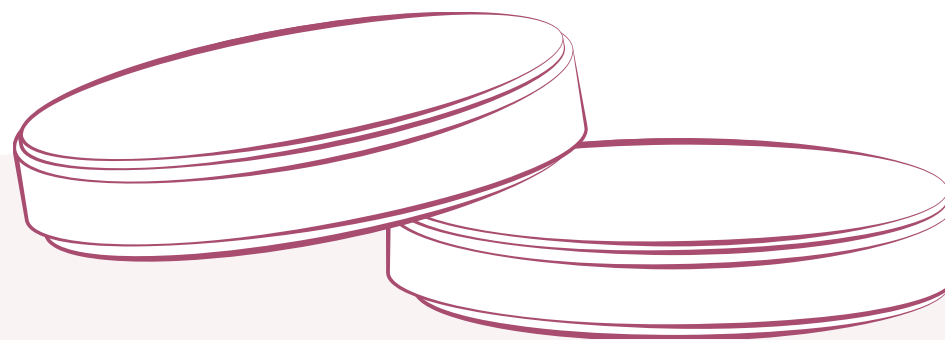
**Product overview**



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Status: 05 / 2022



**For your successful future**

## **We are your partner**

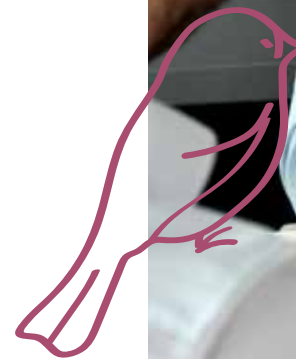
According to the vision as "leading counterpart for more added value in dental technology" a cornerstone has been laid, which directs actions in our company.

**Best quality** and a **fair price-performance ratio** combined with **transparency** and **simplicity** are our corporate principles. These values shape our strengths and create your success.

In our day-to-day cooperation, we concentrate on the fundamental issues that make an essential contribution to long-term value creation - economically and ecologically.

All these trend-setting guidelines serve one goal:  
not to leave your side as a **loyal, long-term and reliable partner**.

In this brochure, animals visualize the properties of our materials. The work and the result with zirconia are as individual, adaptable and unique as nature.



## Translucent zirconia for customized shading

### CADtools HT White

Tooth colour is also a very emotional matter for every patient. Diversify HT White and create the perfect desired colour with this zirconia.

**It is a myth that chameleons change color to adapt to their surroundings. Their color changes depending on how warm they are and how emotionally they are feeling.**

Chemical composition		Material data	
ZrO <sub>2</sub> / HfO <sub>2</sub>	93,0 - 95,5 %	Density	6,04 g / cm <sup>3</sup>
Y <sub>2</sub> O <sub>3</sub>	4,5 - 6,0 %	Flexural strength	1250 Mpa
Al <sub>2</sub> O <sub>3</sub>	< 0,5 %	CTE	9,91 * 10 <sup>-6</sup> K <sup>-1</sup>
Other oxides	< 0,5 %	Vickers hardness	1290 HV
		Translucency	41 - 43 %

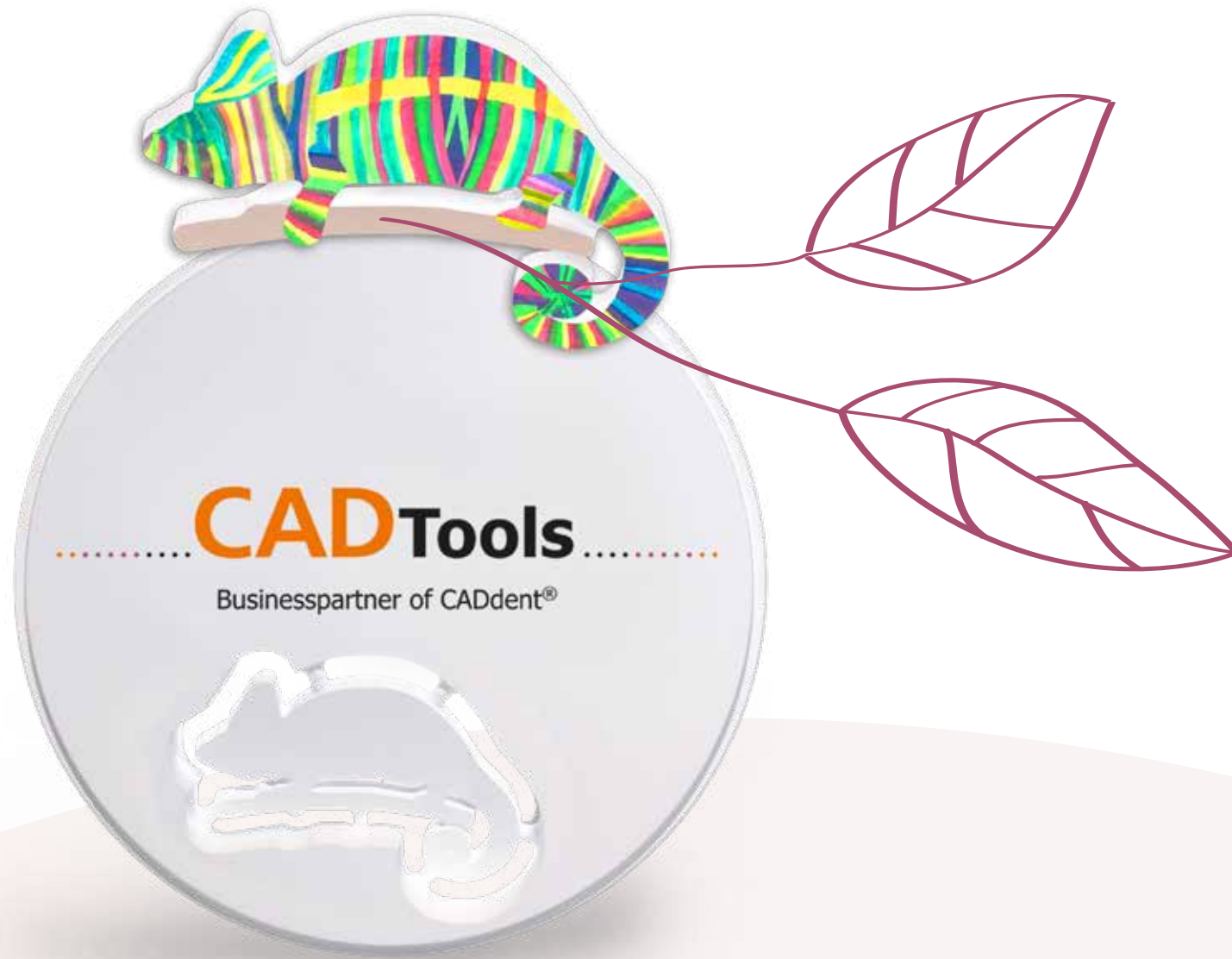
Dimensions	Article no. <b>White</b>	Price
<b>98 x 14 mm</b>	XHT-D98-14	<b>79,00 €</b>
<b>98 x 16 mm</b>	XHT-D98-16	<b>83,00 €</b>
<b>98 x 18 mm</b>	XHT-D98-18	<b>87,00 €</b>
<b>98 x 20 mm</b>	XHT-D98-20	<b>91,00 €</b>
<b>98 x 25 mm</b>	XHT-D98-25	<b>99,00 €</b>

#### ✓ Your benefit:

- easy handling and processing
- reliable stability
- greatest customizability

#### → Indications:

- up to 16 units
- can be veneered
- full crown
- translucency 41 - 43 %
- individual shading



## Opaque, pre-coloured zirconia

# CADtools Opaque

Thanks to the high level of opacity of the CADtools Opaque, colour-complex working bases in particular can be aesthetically concealed.

**Hippos use a similar principle to protect themselves from UV radiation. They create a kind of sunscreen that covers the entire body.**

Chemical composition		Material data		Colours	
ZrO <sub>2</sub> / HfO <sub>2</sub>	94,1 - 94,65 %	Density	6,04 g / cm <sup>3</sup>	OP 0	BL1, BL2, BL3, BL4
Y <sub>2</sub> O <sub>3</sub>	4,65 - 5,95 %	Flexural strength	> 1150 MPa	OP 1	A1, A2, B1
Al <sub>2</sub> O <sub>3</sub>	< 0,4 %	Vickers hardness	1250 HV	OP 2	B2, C1, D2
Other oxides	< 0,7 %	CTE	10 * 10 <sup>-6</sup> K <sup>-1</sup>	OP 3	A3.5, A3, B3, B4, D3
		Translucency	35 %	OP 4	A4, C2, C3, C4, D4

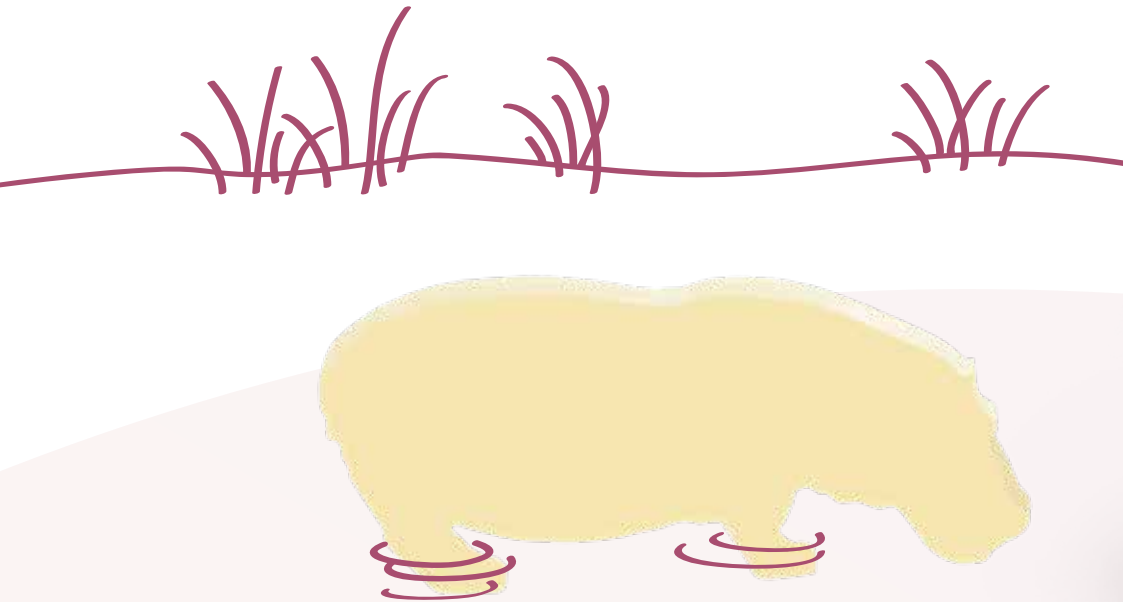
Dimensions	Article no. <b>OP 0</b>	Article no. <b>OP 1</b>	Article no. <b>OP 2</b>	Article no. <b>OP 3</b>	Article no. <b>OP 4</b>	Price
<b>98 x 14 mm</b>	OP0-D98-14	OP1-D98-14	OP2-D98-14	OP3-D98-14	OP4-D98-14	<b>99,00 €</b>
<b>98 x 16 mm</b>	OP0-D98-16	OP1-D98-16	OP2-D98-16	OP3-D98-16	OP4-D98-16	<b>105,00 €</b>
<b>98 x 18 mm</b>	OP0-D98-18	OP1-D98-18	OP2-D98-18	OP3-D98-18	OP4-D98-18	<b>111,00 €</b>
<b>98 x 20 mm</b>	OP0-D98-20	OP1-D98-20	OP2-D98-20	OP3-D98-20	OP4-D98-20	<b>117,00 €</b>
<b>98 x 25 mm</b>	OP0-D98-25	OP1-D98-25	OP2-D98-25	OP3-D98-25	OP4-D98-25	<b>129,00 €</b>

✓ **Your benefit:**

- easy handling and processing
- reliable stability
- demanding results through natural basic colours

→ **Indications:**

- up to 16 units
- can be veneered
- translucency 35 %
- high opacity



## Super highly translucent, pre-colored zirconia

# CADtools SHT Color

With SHT Color the dental technician can use imagination and creativity to visualize what the finished work will look like and what gloss it will shine.

**Dogs have a similarly fascinating imagination when they visualize how a bone looks like just smelling it.**

Chemical composition		Material data	
ZrO <sub>2</sub> / HfO <sub>2</sub>	87,5 - 94,95 %	Density	6,03 g / cm <sup>3</sup>
Y <sub>2</sub> O <sub>3</sub>	5,0 - 10,0 %	Flexural strength	1050 Mpa
Al <sub>2</sub> O <sub>3</sub>	< 0,5 %	CTE	9,91 * 10 <sup>-6</sup> K <sup>-1</sup>
Fe <sub>2</sub> O <sub>3</sub> / Er <sub>2</sub> O <sub>3</sub>	0,05 - 1,5 %	Vickers hardness	1300 HV
Other oxides	< 0,5 %	Translucency	47 - 49 %

### ✓ Your benefit:

- easy handling and processing
- reliable stability
- demanding results through natural basic colours

### → Indications:

- up to 16 units
- can be veneered
- full crown
- 16 shades
- translucency 47 - 49 %

Dimensions	Article no. <b>A1</b>	Article no. <b>A2</b>	Article no. <b>A3</b>	Article no. <b>A3,5</b>	Article no.. <b>A4</b>	Article no. <b>B1</b>	Article no. <b>B2</b>	Article no. <b>B3</b>
<b>98 x 14 mm</b>	XSHTA1-D98-14	XSHTA2-D98-14	XSHTA3-D98-14	XSHTA3,5-D98-14	XSHTA4-D98-14	XSHTB1-D98-14	XSHTB2-D98-14	XSHTB3-D98-14
<b>98 x 16 mm</b>	XSHTA1-D98-16	XSHTA2-D98-16	XSHTA3-D98-16	XSHTA3,5-D98-16	XSHTA4-D98-16	XSHTB1-D98-16	XSHTB2-D98-16	XSHTB3-D98-16
<b>98 x 18 mm</b>	XSHTA1-D98-18	XSHTA2-D98-18	XSHTA3-D98-18	XSHTA3,5-D98-18	XSHTA4-D98-18	XSHTB1-D98-18	XSHTB2-D98-18	XSHTB3-D98-18
<b>98 x 20 mm</b>	XSHTA1-D98-20	XSHTA2-D98-20	XSHTA3-D98-20	XSHTA3,5-D98-20	XSHTA4-D98-20	XSHTB1-D98-20	XSHTB2-D98-20	XSHTB3-D98-20
<b>98 x 25 mm</b>	XSHTA1-D98-25	XSHTA2-D98-25	XSHTA3-D98-25	XSHTA3,5-D98-25	XSHTA4-D98-25	XSHTB1-D98-25	XSHTB2-D98-25	XSHTB3-D98-25



Article no. <b>B4</b>	Article no. <b>C1</b>	Article no. <b>C2</b>	Article no. <b>C3</b>	Article no. <b>C4</b>	Article no. <b>D2</b>	Article no. <b>D3</b>	Article no. <b>D4</b>	Price
XSHTB4-D98-14	XSHTC1-D98-14	XSHTC2-D98-14	XSHTC3-D98-14	XSHTC4-D98-14	XSHTD2-D98-14	XSHTD3-D98-14	XSHTD4-D98-14	<b>99,00 €</b>
XSHTB4-D98-16	XSHTC1-D98-16	XSHTC2-D98-16	XSHTC3-D98-16	XSHTC4-D98-16	XSHTD2-D98-16	XSHTD3-D98-16	XSHTD4-D98-16	<b>105,00 €</b>
XSHTB4-D98-18	XSHTC1-D98-18	XSHTC2-D98-18	XSHTC3-D98-18	XSHTC4-D98-18	XSHTD2-D98-18	XSHTD3-D98-18	XSHTD4-D98-18	<b>111,00 €</b>
XSHTB4-D98-20	XSHTC1-D98-20	XSHTC2-D98-20	XSHTC3-D98-20	XSHTC4-D98-20	XSHTD2-D98-20	XSHTD3-D98-20	XSHTD4-D98-20	<b>117,00 €</b>
XSHTB4-D98-25	XSHTC1-D98-25	XSHTC2-D98-25	XSHTC3-D98-25	XSHTC4-D98-25	XSHTD2-D98-25	XSHTD3-D98-25	XSHTD4-D98-25	<b>129,00 €</b>

## Super highly translucent multilayer zirconia

### CADtools SHT ML

With five harmoniously coordinated layers of colour SHT ML offers you that little bit more of characteristics.

**The slightly angled eyes of a cat, which are considered a symbol of beauty, can show every shade of colour from green, blue to yellow and red.**

Chemical composition		Material data	
ZrO <sub>2</sub> / HfO <sub>2</sub>	87,5 - 94,95 %	Density	6,03 g / cm <sup>3</sup>
Y <sub>2</sub> O <sub>3</sub>	5,0 - 10,0 %	Flexural strength	1050 Mpa
Al <sub>2</sub> O <sub>3</sub>	< 0,5 %	CTE	9,91 * 10 <sup>-6</sup> K <sup>-1</sup>
Fe <sub>2</sub> O <sub>3</sub> / Er <sub>2</sub> O <sub>3</sub>	0,05 - 1,5 %	Vickers hardness	1300 HV
Other oxides	< 0,5 %	Translucency	47 - 49 %

#### ✓ Your benefit:

- easy handling and processing
- reliable stability
- demanding results through natural basic colours
- aesthetic chromatic gradient

#### → Indications:

- up to 16 units
- can be veneered
- full crown
- 16 shades
- translucency 47 - 49 %
- natural chromatic gradient

Dimensions	Article no. <b>A1</b>	Article no. <b>A2</b>	Article no. <b>A3</b>	Article no. <b>A3,5</b>	Article no. <b>A4</b>	Article no. <b>B1</b>	Article no. <b>B2</b>	Article no. <b>B3</b>
<b>98 x 14 mm</b>	XSHT-MLA1-D98-14	XSHT-MLA2-D98-14	XSHT-MLA3-D98-14	XSHT-MLA3,5-D98-14	XSHT-MLA4-D98-14	XSHT-MLB1-D98-14	XSHT-MLB2-D98-14	XSHT-MLB3-D98-14
<b>98 x 18 mm</b>	XSHT-MLA1-D98-18	XSHT-MLA2-D98-18	XSHT-MLA3-D98-18	XSHT-MLA3,5-D98-18	XSHT-MLA4-D98-18	XSHT-MLB1-D98-18	XSHT-MLB2-D98-18	XSHT-MLB3-D98-18
<b>98 x 20 mm</b>	XSHT-MLA1-D98-20	XSHT-MLA2-D98-20	XSHT-MLA3-D98-20	XSHT-MLA3,5-D98-20	XSHT-MLA4-D98-20	XSHT-MLB1-D98-20	XSHT-MLB2-D98-20	XSHT-MLB3-D98-20
<b>98 x 25 mm</b>	XSHT-MLA1-D98-25	XSHT-MLA2-D98-25	XSHT-MLA3-D98-25	XSHT-MLA3,5-D98-25	XSHT-MLA4-D98-25	XSHT-MLB1-D98-25	XSHT-MLB2-D98-25	XSHT-MLB3-D98-25



Article no. <b>B4</b>	Article no. <b>C1</b>	Article no. <b>C2</b>	Article no. <b>C3</b>	Article no. <b>C4</b>	Article no. <b>D2</b>	Article no. <b>D3</b>	Article no. <b>D4</b>	Price
XSHT-MLB4-D98-14	XSHT-MLC1-D98-14	XSHT-MLC2-D98-14	XSHT-MLC3-D98-14	XSHT-MLC4-D98-14	XSHTD2-D98-14	XSHT-MLD3-D98-14	XSHT-MLD4-D98-14	<b>119,00 €</b>
XSHT-MLB4-D98-18	XSHT-MLC1-D98-18	XSHT-MLC2-D98-18	XSHT-MLC3-D98-18	XSHT-MLC4-D98-18	XSHTD2-D98-18	XSHT-MLD3-D98-18	XSHT-MLD4-D98-18	<b>135,00 €</b>
XSHT-MLB4-D98-20	XSHT-MLC1-D98-20	XSHT-MLC2-D98-20	XSHT-MLC3-D98-20	XSHT-MLC4-D98-20	XSHTD2-D98-20	XSHT-MLD3-D98-20	XSHT-MLD4-D98-20	<b>143,00 €</b>
XSHT-MLB4-D98-25	XSHT-MLC1-D98-25	XSHT-MLC2-D98-25	XSHT-MLC3-D98-25	XSHT-MLC4-D98-25	XSHTD2-D98-25	XSHT-MLD3-D98-25	XSHT-MLD4-D98-25	<b>159,00 €</b>

## Ultra highly translucent 3D multilayer zirconia

### CADtools 3D ML

In addition to the richness of colours, the 3D multilayer zirconia impresses with its unique material properties. It combines natural chromatic gradients with different degrees of hardness in one blank.

**Contrary to popular belief, parrot fish do not get their name from their play of colors, but from the shape of their teeth, which resembles a beak of a parrot.**

Chemical composition		Material data	
ZrO <sub>2</sub> / HfO <sub>2</sub>	87,5 - 95,95 %	Density	6,03 g / cm <sup>3</sup>
Y <sub>2</sub> O <sub>3</sub>	4,0 - 10,0 %	Flexural strength	750 - 1250 Mpa
Al <sub>2</sub> O <sub>3</sub>	< 0,5 %	CTE	10 * 10 <sup>-6</sup> K <sup>-1</sup>
Fe <sub>2</sub> O <sub>3</sub> / Er <sub>2</sub> O <sub>3</sub>	0,05 - 1,5 %	Vickers hardness	1250 HV
Other oxides	< 0,5 %	Translucency	43 - 55 %

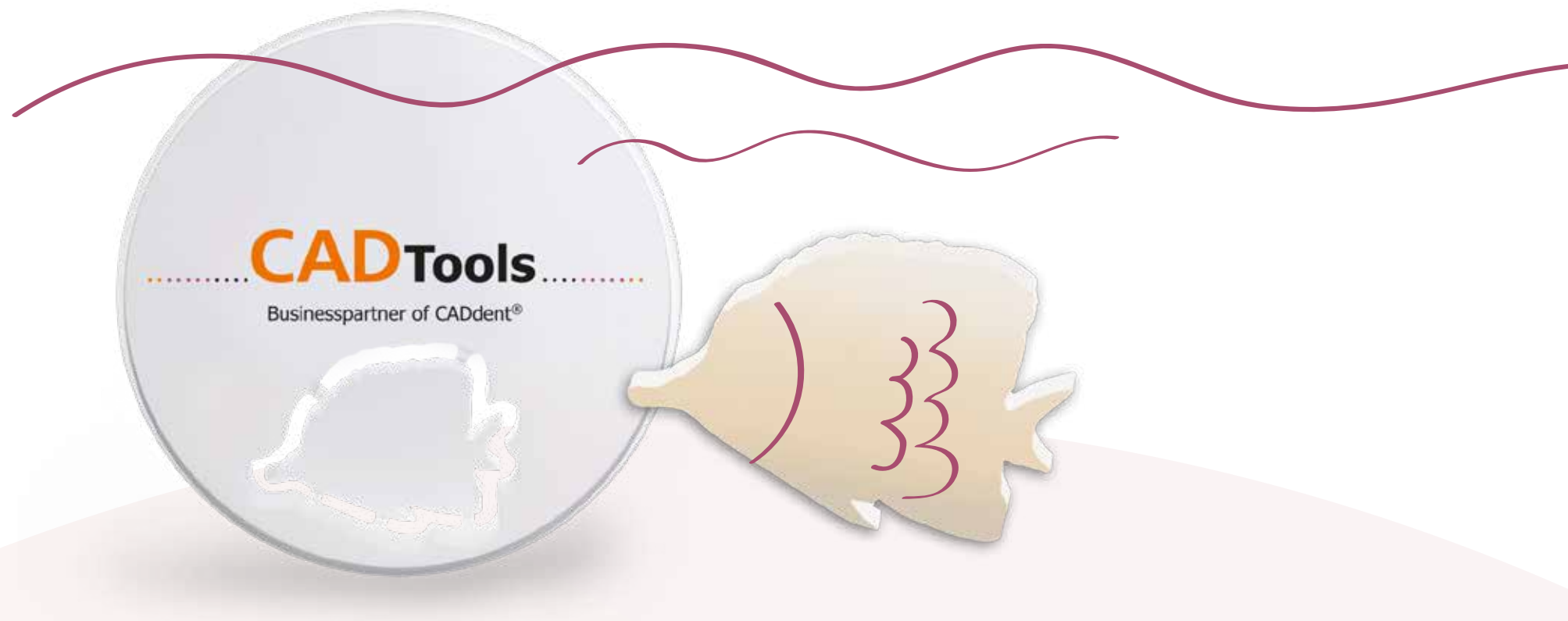
#### ✓ Your benefit:

- easy handling and processing
- reliable stability
- minimal effort for maximum aesthetics
- antagonist-friendly incisal area

#### → Indications:

- up to 16 units
- can be veneered
- full crown
- 16 shades
- translucency 43 - 55 %
- natural chromatic gradient
- varying degree of hardness

Dimensions	Article no. <b>A1</b>	Article no. <b>A2</b>	Article no. <b>A3</b>	Article no. <b>A3,5</b>	Article no. <b>A4</b>	Article no. <b>B1</b>	Article no. <b>B2</b>	Article no. <b>B3</b>
<b>98 x 14 mm</b>	X3D-MLA1-D98-14	X3D-MLA2-D98-14	X3D-MLA3-D98-14	X3D-MLA3,5-D98-14	X3D-MLA4-D98-14	X3D-MLB1-D98-14	X3D-MLB2-D98-14	X3D-MLB3-D98-14
<b>98 x 16 mm</b>	X3D-MLA1-D98-16	X3D-MLA2-D98-16	X3D-MLA3-D98-16	X3D-MLA3,5-D98-16	X3D-MLA4-D98-16	X3D-MLB1-D98-16	X3D-MLB2-D98-16	X3D-MLB3-D98-16
<b>98 x 18 mm</b>	X3D-MLA1-D98-18	X3D-MLA2-D98-18	X3D-MLA3-D98-18	X3D-MLA3,5-D98-18	X3D-MLA4-D98-18	X3D-MLB1-D98-18	X3D-MLB2-D98-18	X3D-MLB3-D98-18
<b>98 x 25 mm</b>	X3D-MLA1-D98-25	X3D-MLA2-D98-25	X3D-MLA3-D98-25	X3D-MLA3,5-D98-25	X3D-MLA4-D98-25	X3D-MLB1-D98-25	X3D-MLB2-D98-25	X3D-MLB3-D98-25



Article no. <b>B4</b>	Article no. <b>C1</b>	Article no. <b>C2</b>	Article no. <b>C3</b>	Article no. <b>C4</b>	Article no. <b>D2</b>	Article no. <b>D3</b>	Article no. <b>D4</b>	Price
X3D-MLB4-D98-14	X3D-MLC1-D98-14	X3D-MLC2-D98-14	X3D-MLC3-D98-14	X3D-MLC4-D98-14	X3D-MLD2-D98-14	X3D-MLD3-D98-14	X3D-MLD4-D98-14	<b>159,00 €</b>
X3D-MLB4-D98-16	X3D-MLC1-D98-16	X3D-MLC2-D98-16	X3D-MLC3-D98-16	X3D-MLC4-D98-16	X3D-MLD2-D98-16	X3D-MLD3-D98-16	X3D-MLD4-D98-16	<b>169,00 €</b>
X3D-MLB4-D98-18	X3D-MLC1-D98-18	X3D-MLC2-D98-18	X3D-MLC3-D98-18	X3D-MLC4-D98-18	X3D-MLD2-D98-18	X3D-MLD3-D98-18	X3D-MLD4-D98-18	<b>179,00 €</b>
X3D-MLB4-D98-25	X3D-MLC1-D98-25	X3D-MLC2-D98-25	X3D-MLC3-D98-25	X3D-MLC4-D98-25	X3D-MLD2-D98-25	X3D-MLD3-D98-25	X3D-MLD4-D98-25	<b>209,00 €</b>

## Ultra highly translucent 3D zirconia for customized shading

### CADtools 3D White

3D White offers you complete freedom for splendid shading and aesthetics. You can also benefit from the different degrees of hardness within the same blank.

**The diverse and wonderful shades of the butterfly are created by microscopic, colourful scales, the so-called butterfly dust.**

Chemical composition		Material data	
ZrO <sub>2</sub> / HfO <sub>2</sub>	89,0 - 96,0 %	Density	6,04 g / cm <sup>3</sup>
Y <sub>2</sub> O <sub>3</sub>	4,0 - 10,0 %	Flexural strength	750 - 1250 Mpa
Al <sub>2</sub> O <sub>3</sub>	< 0,5 %	CTE	10 * 10 <sup>-6</sup> K <sup>-1</sup>
Other oxides	< 0,5 %	Vickers hardness	1250 HV
		Translucency	43 - 55 %

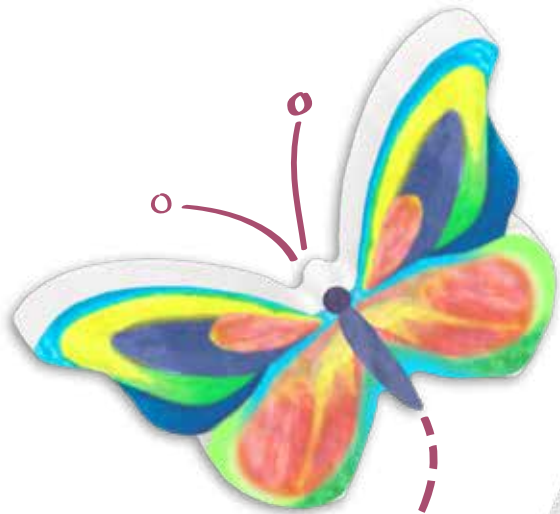
Dimensions	Article no. <b>White</b>	Price
<b>98 x 14 mm</b>	X3D-WH-D98-14	<b>159,00 €</b>
<b>98 x 16 mm</b>	X3D-WH-D98-16	<b>169,00 €</b>
<b>98 x 18 mm</b>	X3D-WH-D98-18	<b>179,00 €</b>
<b>98 x 25 mm</b>	X3D-WH-D98-25	<b>209,00 €</b>

#### ✓ Your benefit:

- easy handling and processing
- reliable stability
- greatest customizability
- antagonist-friendly incisal area

#### → Indications:

- up to 16 units
- can be veneered
- full crown
- individual shading
- translucency 43 - 55 %
- varying degree of hardness





## Shipping costs and payment options

**Shipping costs outside Germany may vary according to destination country**

**Price**

UPS Express - End of Day 6:00 p.m.

Mo. - Fr.

9,49 €

### **Free shipping**

From an order value of 500,- € (net) the delivery with UPS Express  
- End of Day 6:00 p.m. will be free of charge.

### **Payment options**

Payment term (30 days net)

## Our promise for your security

# Service and guarantee



### Satisfaction guarantee

Your 100 % satisfaction in the quality of the products is our promise. Should this not be the case, we will exchange the goods or refund the purchase price. At any time.



### Refund warranty

We guarantee you fair and attractive conditions. If you find an identical product cheaper elsewhere within 6 weeks of the date of purchase, we will refund the difference.



### 3 year guarantee

We offer you extra security with our three-year guarantee on material properties and processing.



### Overnight delivery

In case of placement of your order before 2 p.m., you will receive the goods the next working day (excluding peripheral areas).



### Exchange service

You can exchange unopened goods or in mint condition for another product free of charge within 24 months.

# from technician to technician

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