



# Pürzir

## **Instructions For Use** Pürzir Zirconia Dental Blanks

Manufactured in 

- Pürzir MMT
- Pürzir MMT +
- Pürzir HT
- Pürzir HT+
- Pürzir ST
- Pürzir HS

# Pürzir Zirconia Dental Blanks

## ■ Intended Use

Seattle Bioceramics Dental Zirconia Discs are used for dental restorations using various CAD/CAM or manual milling machines.

## ■ Pürzir Composition

	MMT / MMT+	HT	HT+	ST	HS
ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub>	≥ 96.5%	≥ 97.7%	≥ 96.5%	≥ 96.5%	≥ 99%
Al <sub>2</sub> O <sub>3</sub>	≤ 0.5%	≤ 0.5%	≤ 0.5%	≤ 0.5%	≤ 0.5%
Other Oxides*	< 3.5%	< 1.8%	< 3.0%	< 3.0%	< 0.5%

\*Includes Fe<sub>2</sub>O<sub>3</sub> and Er<sub>2</sub>O<sub>3</sub>

## ■ Pürzir Properties

Product	MMT	MMT+	HT (w/ Pre-shaded/ Multi-Layer)	HT+ (w/ Pre-shaded/ Multi-Layer)	ST (w/ Pre-shaded/ Multi-Layer)	HS White
Translucency	47 - 43%	49 - 47%	43%	47%	49%	39%
Strength	1,000 - 1,300 MPa	700 - 1,000 MPa	1,300 MPa	1,000 MPa	700 MPa	1,300 MPa

## ■ Storage

Pürzir is best stored in its original packaging. Keep discs in a dry area at room temperature.

## ■ Sintering Cycle

Pürzir products all share the same sintering cycle, making it simple and easy.

Step	Starting Temp. (°C)	End Temp. (°C)	Time (minutes)	Heating Rate (°C/minute)
Step 1	Room Temp.	1,150	140	8
Step 2 - Holding	1,150	1,150	30	Hold
Step 3	1,150	1,300	75	2
Step 4	1,300	1,480	45	4
Step 5 - Holding	1,480	1,480	120	Hold
Step 6 - Cooling	1,480	800	85	-8
Final	800	100	-	Natural Cooling

## ■ Warranty Information

- Users should make sure to follow the instructions provided by the manufacturers of the equipment used to mill Pürzir zirconia discs.
- Inspect zirconia discs for any signs of defects before using.
- Milling the zirconia disc will void any complaint claims submitted by the customer.

**Rx only** - This Product should only be handled by professional dental technicians and professional dental specialists. Seattle Bioceramics is not liable for damages that arise from mishandling or misuse of the product.

 **Caution** - Federal law restricts this device to sale by or on the order of a dentist.

## ■ Using Pürzir

### Milling

- Make sure to carefully inspect each zirconia disc for damage before use.
- For installation and removal of Pürzir Zirconia discs, refer to the mill's corresponding manual provided by the mill's manufacturer. This will prevent damage to the disc during the installation and removal of the disc from the mill.
- For best results during milling, be sure to use sharp diamond-coated endmills.
- Removal of milled framework is done best with diamond grinding tools.

### Coloring Liquid

- Pürzir works well with a variety of coloring liquid. Follow instructions provided by the manufacturer of the coloring liquid.
- Be sure to fully dry frameworks before moving on. Use of infrared lamps for drying is recommended.

### Sintering

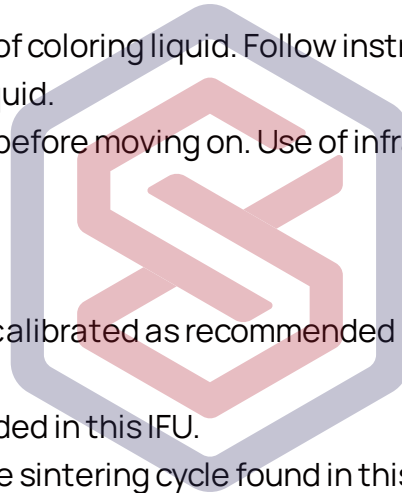
- Make sure sintering ovens are calibrated as recommended by the manufacturer for optimum results.
- Follow the sintering cycle provided in this IFU.
- All Pürzir products use the same sintering cycle found in this IFU.

### Frame Fitting / Sand Blasting / Cleaning

- Sand blast frames using 50-micron sandblasting media (corundum) at 2-2.5 bars of pressure.
- Clean frames made using Pürzir with water.
- Do not steam clean frames made using Pürzir.
- Wear proper protection to prevent user from inhaling fine dust particles during any stage that produces dust.

### Staining / Glazing

- Pürzir is a zirconia product. Make sure to use stains and glazing materials that are designed to be used on zirconia.
- When staining and glazing the product, be sure to follow the manufacturer's instructions and recommendations for firing parameters.



## ■ Safety Data

### Composition / Ingredient Information

Ingredients: Zirconia Ceramic

### First Aid

Routes of exposure:

- Eye Contact
- Skin Contact
- Ingestion
- Inhalation

### First Aid Instructions:

- EYE CONTACT: Flush eyes with large amounts of water. If irritation persists, keep flushing eyes with water and seek medical attention.
- SKIN CONTACT: Wash area with soap and water. If signs of irritation or discomfort develop, seek medical attention.
- INGESTION: Rinse mouth with water. If substantial amounts are ingested, then drink a large amount of water and induce vomiting. Seek medical attention.
- INHALATION: Remove person to fresh air. Seek medical attention if irritation, discomfort, or difficulty breathing develops.

## ■ Shelf Life

The shelf life of Püzir zirconia disc products are 5 years after the date of manufacture.



MANUFACTURED BY

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