



In-house
milling



ZI

Translucent zirconia

White zirconia for up to full-arch frameworks



EFFICIENCY

The processing time is reduced due to optimum edge stability and milling properties



STRENGTH

ZI is a durable material indicated for up to full-arch restorations



FLEXIBILITY

The broad range of individualization options gives maximum flexibility to dental professionals

Available shades

- ZI discs (for in-house milling) are available in white.

WHITE ZI DISCS (EACH ARTICLE CONTAINS 1 DISC)

Disc height	14 mm	16 mm	18 mm	20 mm	25 mm
Round Disc (98 mm)	760221-STM	760223-STM	760225-STM	760227-STM	760229-STM











Available indications

- For final restorations
- For up to full-arch









Recommended indication

Possible indication

TOOTH-BASED

				
Inlay	Onlay	Veneer	Partial crown	Coping
				
Full-contour crown	Telescopic crown	Bridge/bar framework	Full-contour bridge	Vestibular veneering

ABUTMENT-BASED (AVAILABLE WITHIN THE CARES® X-STREAM™ SOLUTION)

			
Coping on Ti-Base	Full-contour crown on Ti-Base	Bridge/bar framework on Ti-Base	Full-contour bridge on Ti-Base
			
Coping on CAD/CAM abutment	Full-contour crown on CAD/CAM abutment	Bridge/bar framework on CAD/CAM abutments	Full-contour bridge on CAD/CAM abutments

Workflow

STEPS	OPTIONS
Nesting	Position the restoration in the desired disc position
Milling	Dry milling with D and M series
Dying	<i>Recommendation: ceramill® Coloring Liquid for ZI</i>
Sintering	<i>Recommendation: Straumann® CARES® Therm</i>
Finishing	Polishing Staining & glazing Layering <i>Recommendation: ceramill® stain and glaze for all Zolid® zirconia</i>
Cementing	Adhesive Self-adhesive Conventional

Chemical composition

ELEMENTS	WEIGHT
ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥ 99.0 %
Y ₂ O ₃	4.5 – 5.6 %
HfO ₂	≤ 5 %
Al ₂ O ₃	≤ 0.5 %
Other oxides	≤ 1 %

Physical properties

PROPERTIES	VALUE
Bending Strength (3-point) [MPa]	1200 ± 150
E-Module [GPa]	≥ 200
CTE (25 – 500°C) [10 ⁻⁶ K ⁻¹]	10.4 ± 0.5

Preparation guidelines

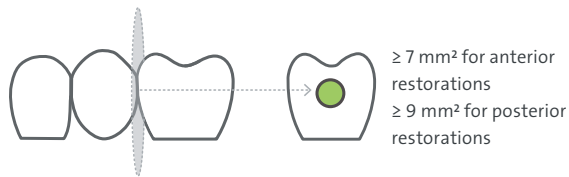
- ▶ The preparation shall not have angles or sharp edges
- ▶ The shoulder preparation shall be with rounded inner edges and/or chamfer
- ▶ The preparation shall have retentive surfaces for conventional cementation
- ▶ The cross-sections shall be adjusted in relation to the total size of the restoration
- ▶ The transition from a connector to a crown or coping shall be rounded

Wall thickness

MINIMAL RESTORATION DESIGN



Restoration wall thickness



Connector cross-section

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