

NBC CERTIFIED | FDA APPROVED MATERIALS | NADL MEMBER

Porcelain overlay

1200 MPa of flexural strength

Clinical grade zirconia



# STRENGTH

The perfect fusion of strength and beauty.

## Z-Crown Layered Zirconia

- + Exceptional strength: Comparable to PFMs at 1200 MPa
- + Excellent esthetics: Semi-transparent with a high opacity to mask underlying tooth discoloration, metal cores and implant abutments
- + Outstanding marginal fit: Chair time significantly reduced
- + Biocompatible: No allergic reactions or tissue irritation
- + Cementable: Use your favorite cementation material and protocol

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## INDICATIONS

- Crowns: anterior & posterior
- Bridges up to 38mm, two abutments
- Bridges to 47mm, multiple abutments
- Inlay bridges (3 units)

## CONTRAINDICATIONS

A feather edge is not recommended

## PREPARATION GUIDELINES

Anterior crowns

- Axial reduction: 1.0 - 1.5 mm
- Incisal reduction: 1.5 - 2.0 mm

Posterior crowns:

- Axial reduction: 1.0 - 1.5 mm
- Occusal reduction: 1.5 - 2.0 mm

## MARGINS

- Shoulder
- Chamfer

## CEMENTATION

Cercon can be conventionally cemented.

- Dual cure resins
- Glass ionomer cement (Fuji GC)
- Zinc phosphate
- Polycarboxylate
- Resin ionomer cement (ReltyX by 3M ESPE)

## TECHNICAL TIP:

If an adjustment is required on the ceramic, always cement or bond into place before proceeding. Then use a fine diamond with water and air to keep the crown cool. To contour the ceramic, polish with a pink rubber wheel and diamond polishing paste.

## ADA CODES

Single Unit

D2740 Crown - porcelain/ceramic substrate

Bridgework

D6740 Crown - porcelain/ceramic

D6245 Pontic - porcelain/ceramic

### FRAMEWORK MATERIALS PROPERTIES:

SHADE	WHITE
DENSITY	6.08 g/cm <sup>3</sup>
FLEXURAL STRENGTH	1200 MPa
FRACTURING TOUGHNESS	5-10 MPa m <sup>1/2</sup>
YOUNG'S MODULUS OF ELASTICITY	>205 GPa
VICKERS HARDNESS (HV 10)	<10 X 10 <sup>-6</sup> G/CM <sup>2</sup>
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% - 5,4%

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