Centralized milling

zerion® ML

Multi-layered high translucent zirconia manufactured from KATANA™ ML discs by Kuraray Noritake Dental Inc.

Zirconia with natural color gradient for up to full-arch full-contour restorations

EFFICIENCY
Post-processing time is reduced with full-contour restorations

STRENGTH
zerion® ML is a durable material indicated for up to full-arch restorations

FLEXIBILITY
A broad range of indications and shades provide high flexibility to dental professionals

straumann

Available shades

- The zerion® ML restorations (available through our CARES® centralized milling solution) are available in five multi-layered high translucent shades: A Light, A Dark, B Light, C Light and D Light

A Light | A Dark | B Light | C Light | D Light

Available indications

- For final restorations
- For up to full-arch

Recommended indication
Possible indication
Not possible indication (n/a)

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 CADCAM abutment

Full-contour crown on CADCAM abutment

Bridge/bar framework on CADCAM abutments

Full-contour bridge on CADCAM abutments

Workflow

STEPS	OPTIONS
Nesting	Position the restoration in the desired disc/block shade transition
Finishing	Polishing Staining & glazing Layering
Cementing	Adhesive Self-adhesive Conventional *Recommended self-adhesive cement: Panavia™ SA Cement Plus* *Recommended pre-treatment cement: Panavia™ V5*

Chemical composition

ELEMENTS	WEIGHT
ZrO_2 + HfO_2	90-95 %
Y_2O_3	5-8 %
Other oxides	0-2 %

Physical properties

PROPERTIES	VALUE
Material	Y-TZP
Density [g/cm³]	≥ 6.0
Biaxial flexural strength [MPa]*	≥ 900
CTE (25-500°C) [10^{-6} K^{-1}]	9.9 ± 0.2

**According to ISO 6872*

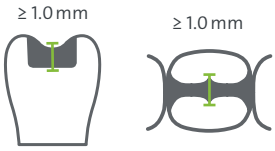
Preparation guidelines

- 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

Wall thickness

- 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

MINIMAL RESTORATION DESIGN

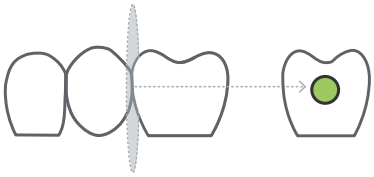


Inlay

Onlay

Veneer

Restoration wall thickness



≥ 7 mm² and 9 mm² respectively for small and large (≥ 4 unit) anterior bridges

≥ 12 mm² for posterior bridges

≥ 9 mm² and 12 mm² for 1 cantilever respectively for anterior and posterior bridges

Connector cross-section

Sterilization

- For restorations bonded to abutments before being placed in the patient's mouth, the product must be sterilized before use. Sterilization according to the following parameters or per instructions for use of the abutment if different.

METHOD	CONDITIONS	DRYING TIME
Moist Heat (Autoclave) Pre-Vacuum Displacement	132°C / 134°C (270°F / 273°F) for 3 min	Local practice
Moist Heat (Autoclave) Gravity Displacement	132°C / 134°C (270°F / 273°F) for 5 min	Local practice

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