



Centralized
milling



3M™ ESPE™ Lava™ Plus High Translucency Zirconia

High translucent zirconia manufactured by 3M™

Clinically-proven high translucent zirconia for natural-looking full-contour restorations without compromising on strength, translucency or longevity



TRUE COLORS

Developed specifically for a consistent shade match to a large variety of VITA® Classic shades



STRENGTH THAT EXCEEDS

Its microstructure gives Lava™ Plus Zirconia not only the inherent high translucency, but also high strength and fracture toughness

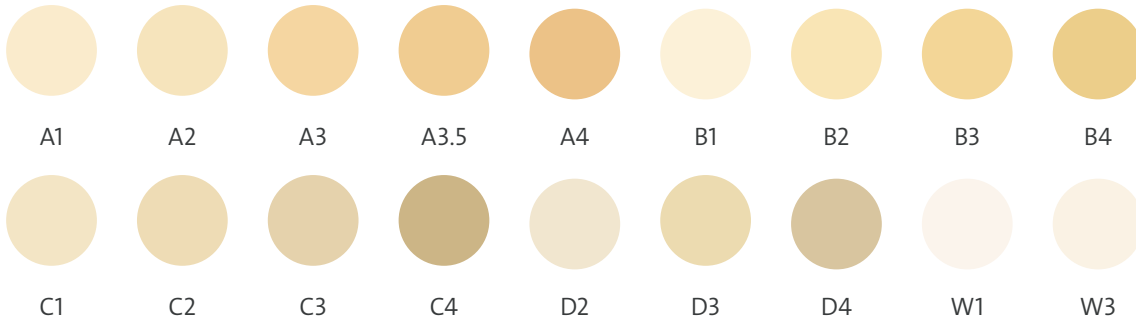


CLINICALLY PROVEN

Millions of restorations have been produced since the introduction of Lava™ Zirconia with a wealth of scientific data

Available shades

► 3M™ ESPE™ Lava™ Plus Zirconia restorations (through our CARES® centralized milling solution) are available in 16 high translucent shades (A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3 and D4) and 2 high translucent bleached shades (W1 and W3).













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 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 |
|-----------|--|
| Finishing | Polishing <i>Recommendation:</i> <i>Glazing is recommended for best shade match. Use high fusing glazes >900 °C.</i> Layering |
| Cementing | Adhesive Self-adhesive Conventional <i>Recommendation:</i> - RelyX™ Temp NE or RelyX™ Temp E for temporary cementation - RelyX™ Luting Plus Automix for permanent cementation - RelyX™ Unicem 2 Automix or RelyX™ U200 for permanent self-adhesive cementation |

Chemical composition

| ELEMENTS | WEIGHT |
|---|------------------|
| ZrO ₂ + HfO ₂ + Y ₂ O ₂ | ≥ 98.5 % |
| Y ₂ O ₂ | > 4.5 to ≤ 6.0 % |
| HfO ₂ | ≤ 5 % |
| Al ₂ O ₃ | ≤ 0.5 % |
| Other oxides | ≤ 1.0 % |

Physical properties

| PROPERTIES | VALUE |
|---|--------|
| Material | 3Y-TZP |
| Density [g/cm ³] | ≥ 6.05 |
| Biaxial flexural strength [MPa]* | > 1000 |
| CTE (25-500 °C) [10 ⁻⁶ K ⁻¹] | 10.5 |

*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

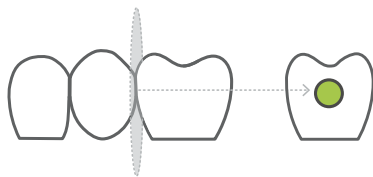
Wall thickness

MINIMAL RESTORATION DESIGN



- ≥ 0.5 mm generally
- ≥ 0.3 mm for anterior and primary crowns
- ≥ 0.7 mm when placed on top of abutments

Restoration wall thickness



- ≥ 7 mm² up to 2 anterior bridge units
- ≥ 10 mm² for more than 2 anterior bridge units
- ≥ 9 mm² for posterior bridge units
- ≥ 8 mm² for 1 anterior cantilever bridge
- ≥ 12 mm² for 1 posterior cantilever bridge

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 |

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