Esthetics simplified.
Just glaze and go.
3M™ Lava™ Esthetic Fluorescent Full-Contour Zirconia is a new gradient pre-colored cubic zirconia disc featuring a one-of-a-kind new shading technology: With its unique four shading elements formulation, it is the first pre-colored zirconia offering inherent fluorescence for all shades. With the new shading technology employed, the color gradients built into Lava Esthetic zirconia truly match the VITA® Classic shades enabling you to produce highly esthetic full-contour restorations in a simple mill-sinter-glaze process.

Available in Bleach, A1, A2, A3, A3.5, B1, C1, D2 with easy positioning of the restoration in the disc due to its simple layer concept: The two upper zones are always 3 mm thick, regardless of the disc height. Only the thickness of the body zone varies.

**Get on the fast track to enhanced productivity.**

**Mill**
- 98 mm disc format with step fitting open systems for dry milling of zirconia.
- No shading liquids.
- No drying time.

**Sinter at 1500°C**
- Total sinter cycle time: 5.2 hours
- Save 3.5 hours vs. liquid shaded zirconia materials

**Glaze**
- Inherent fluorescence: No special fluorescent glaze needed.

Save up to 2.2 hours vs. other zirconia materials
True color match to VITA® Classic shades.

First zirconia with inherent toothlike fluorescence.

- Gradient pre-shaded with true color match to VITA® Classic shades
- First zirconia with inherent toothlike fluorescence
- Optimized translucency for high esthetic full-contour restorations
- Cubic zirconia with high strength of 800 MPa*
- Enhanced productivity: Streamlined mill-sinter-glaze process

* 3-point bending strength according to ISO 6872:2015; qualified for Type II, class 4; indications: crowns, bridges with one pontic between two crowns, inlays, onlays and veneers.
True shade gradient for an excellent shade match.

Pre-shaded 3M™ Lava™ Esthetic Zirconia discs have an integral color gradient to deliver natural-looking shading from enamel to dentin. There is no need to apply extra shading liquids or color corrections after sintering. What you get are esthetic full-contour restorations that truly match the VITA® Classic shades.

First zirconia with inherent toothlike fluorescence.

Natural teeth absorb the invisible UV light present in sunlight and artificial light and emit a visible bluish light. This is fluorescence. Zirconia per se is not fluorescent. Due to its unique shading formulation, Lava Esthetic zirconia is the first inherently fluorescing pre-shaded zirconia, allowing for a lifelike appearance in any light. Whether in daylight, sunshine or black light – restorations made of Lava Esthetic zirconia always look natural.

Why inherent fluorescence matters.

- Natural, toothlike appearance – even for unglazed, polished restorations – as fluorescence comes from the inside
- No special fluorescent glaze needed
- Fluorescence from glazes can be non-uniform or speckled
- Inherent fluorescence is maintained during restoration adjustments, while fluorescent glazes would be removed
built in.

Ideal for esthetic full-contour crowns and bridges.

With 800 MPa* strength and a high translucency optimized for esthetic full-contour crowns and bridges, Lava Esthetic zirconia solves typical glass ceramic cases with more confidence. With minimum 0.8 mm, it allows for reduced wall thickness versus IPS e.max® and with 12 mm² anterior (14 mm² posterior) also thinner connectors.

For cases with very limited space or parafunctional patients requiring ultimate strength, choose 3M™ Lava™ Plus Zirconia.

Indications:**
- Anterior and posterior crowns
- Bridges with maximum one pontic between two crowns
- Inlays/onlays, veneers

Cementation simplified.

The high strength of Lava Esthetic zirconia allows for conventional, self-adhesive or adhesive cementation. 3M cement recommendation: 3M™ RelyX™ Unicem 2 Self-Adhesive Resin Cement – the world’s most clinically proven self-adhesive resin cement, combining high bond strength with simple handling. Compared to glass ceramic, bonding Lava Esthetic zirconia together with RelyX Unicem 2 cement requires fewer steps without compromising reliability and esthetics.

* 3-point bending strength according to ISO 6872:2015; qualified for Type II, class 4; indications: crowns, bridges with one pontic between two crowns, inlays, onlays and veneers.
** Please refer to the instructions for use for details.
What’s the secret? Dis of pre-shaded zirconia.

3M™ Lava™ Esthetic Zirconia discs are based on high purity zirconium dioxide stabilized with 5 mol% yttria. For shading, a newly developed four shading elements formula is utilized. Shading elements are carried by spherical microcrystalline clusters. These are visible as small dots in the disc and indicate the unique shading chemistry.

True shade match is achieved by fine-tuning the ratio of the red, gray and yellow shading elements. Shade gradient is produced by varying the cluster concentration. Sintering at 1500°C produces a dense polycrystalline microstructure. Shading elements are uniformly distributed and built into the crystals to provide the desired color gradient and fluorescence.

Cluster concentration increases from incisal to body zone. Element ratios are fine-tuned to match enamel and dentin shades.
cover the reinvention

Fluorescence.

With the addition of a fourth fluorescing element, Lava Esthetic zirconia’s unique shading formula delivers for the first time inherent fluorescence for all shades.

Translucency.

The crystal phase of sintered Lava Esthetic zirconia is predominantly cubic. Conventional zirconia stabilized with 3 mol% yttria is mostly tetragonal. The cubic crystals reduce light scattering thus providing a higher translucency level.

Strength.

With 800 MPa* Lava Esthetic zirconia provides higher strength than leading super-high translucent cubic zirconia and IPS e.max® CAD. Tetragonal 3M™ Lava™ Plus Zirconia provides even higher strength by transformation toughening.
### Ordering Information

#### 3M™ Lava™ Esthetic Fluorescent Full-Contour Zirconia

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#### 3M™ RelyX™ Unicem 2 Automix Self-Adhesive Resin Cement

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