Aesthetics simplified. Just glaze and go.
Productivity and high aesthetics. Now one disc has it all.

3M™ Lava™ Esthetic Fluorescent Full-Contour Zirconia is a gradient pre-shaded cubic zirconia disc featuring a new shading technology. With the innovative four shading elements formulation, it is the first pre-shaded zirconia offering inherent fluorescence for all shades. The colour gradients built into Lava Esthetic zirconia truly match the VITA classical shades enabling you to produce highly aesthetic full-contour restorations in a simple mill-sinter-glaze process.

Get on the fast track to enhanced productivity.

**Mill**
98 mm disc format with step fitting open systems for dry milling of zirconia.

**Sinter at 1500°C**
Total sinter cycle time: 5.2 hours.

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

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**First zirconia with inherent toothlike fluorescence.**

- Gradient pre-shaded with true colour match to VITA classical shades
- First zirconia with inherent toothlike fluorescence
- Optimised translucency for high aesthetic full-contour restorations
- Cubic zirconia with high strength of 800 MPa*
- Enhanced productivity: Streamlined mill-sinter-glaze process

*Compared with 3M™ Lava™ Plus

* 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.
Natural aesthetics. Now built in.

True shade gradient for an excellent shade match.

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

Ideal for aesthetic full-contour crowns and bridges.

With 800 MPa* strength and high translucency optimised for aesthetic full-contour crowns and bridges, Lava Esthetic zirconia can be used as an alternative to typical glass ceramic cases with confidence. With minimum 0.8 mm, it allows for reduced wall thickness compared with lithium disilicate glass ceramic and also thinner connectors (12 mm² anterior and 14 mm² posterior) for bridges.**

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. We recommend 3M™ RelyX™ Unicem 2 Self-Adhesive Resin Cement – a clinically proven self-adhesive resin cement, combining high bond strength and simple handling without compromising reliability and aesthetics.

* 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.
**Based on manufacturer instructions for use.
What’s the secret? Discover the reinvention of pre-shaded zirconia.

3M™ Lava™ Esthetic Zirconia discs are based on high purity zirconium dioxide stabilised with 5 mol% yttria. For shading, a newly developed four shading elements formula is utilised. 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 colour gradient and fluorescence.

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 stabilised with 3 mol% yttria is mostly tetragonal. The cubic crystals reduce light scattering thus providing a higher translucency level.

Strength and fracture toughness.

Lava Esthetic zirconia meets the requirements of a Class 4 ceramic*. Fracture toughness is a measurement of the damage tolerance of a material. As an example, materials such as glass, which break easily when scratched, have a relatively low fracture toughness which can be undesirable when used in many dental applications. The higher fracture toughness of Lava Esthetic zirconia, as compared to glass-ceramic materials, enables it to be indicated for 3-unit anterior and posterior bridges.

*Classifications of dental ceramics as defined by ISO 6872:2015.
3M™ Lava™ Esthetic Fluorescent Full-Contour Zirconia

1 disc per pack

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<th>Shade</th>
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Always follow the Instructions for Use (IFU) and refer to IFU for full indications, precautions and warnings. Claims supported by 3M data on file.

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