

# Lava™

## Crowns and Bridges



# There is a Difference

### Summary of advantages

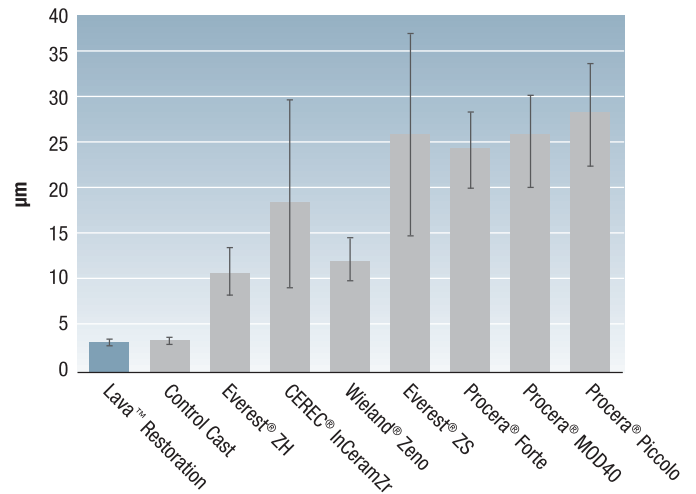
- Precision CAD/CAM system for outstanding marginal fit
- Superior fit relative to leading competition<sup>1,2,3</sup>
- Fit cited as the most important attribute to doctors<sup>4</sup>
- Proven high strength performance-1440 MPa 3-pt. bend strength<sup>5</sup>
- 5-year clinical study with 100% survival rate<sup>6</sup>
- Natural translucency and unmatched aesthetics
- Patented substructure system available in 8 shades.

### Precision fit, proven strength and natural aesthetics.

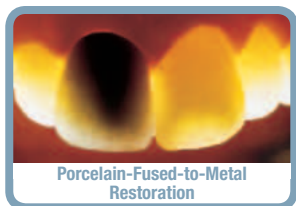
Lava™ Crowns and Bridges from 3M ESPE has been established as a leading brand in CAD/CAM-produced zirconia restorations through its precise fit, proven strength and natural aesthetics. 3M has over 100 years of manufacturing excellence and more than 25 years of zirconia research and processing, 3M ESPE brings vast expertise in materials science and systems integration to create products that consistently meet the high standard that doctors and labs expect. Lava crowns and bridges from 3M ESPE.

There is a difference.

Marginal Fit: Mean Marginal Gap<sup>1</sup>



Source: 3M ESPE internal data



Backlit view shows shadowing of the PFM restoration due to the metal substructure

VS



Backlit view shows the Lava restoration's beautiful, natural translucency

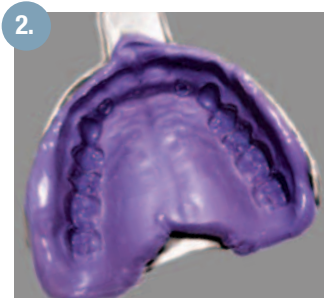
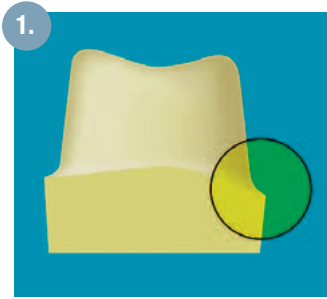


Metal can show over time

VS



Lava™ Zirconia Crown



## Offering Lava™ Restorations is easy!

### Clinical preparation and procedure

1. Tooth Preparation
  - Minimal tooth reduction required due to zirconia coping thickness of 0.3mm or 0.5mm
  - Chamfer or shoulder margin
2. Impression
  - 3M™ ESPE™ Impregum™ Penta™ Soft Polyether Impression Material
  - 3M™ ESPE™ Imprint™ 3 VPS Impression Material
3. Temporization
  - 3M™ ESPE™ Protemp™ Crown
  - 3M™ ESPE™ Protemp™ Garant™ Temporization Material
4. Cementation
  - 3M™ ESPE™ RelyX™ Unicem Self-Adhesive Universal Resin Cement

### Dental lab process

Just send your prescription to the lab of your choice or directly to any of our Authorized Lava™ Milling Centers (ALMCs). Be sure to request genuine Lava™ Zirconia.

Any lab can request an outsourced coping from an Authorized Lava Milling Center. (A list of ALMCs can be found at [3MESPE.com/lava](http://3MESPE.com/lava).) Look for the Lava Zirconia sticker when you receive your final restoration from your lab.



### Approved indications for use

Single crowns; 3- and 4-unit bridges with multiple abutments; 5- and 6-unit bridges; Splinted crowns (up to six units); Cantilever bridges (up to four units); no single abutments

1. 0828 *In-Vitro* Vertical Marginal Gap Comparison of CAD/CAM Zirconium Copings, A.J.T. Shannon, F. Qian, P. Tan, and D. Gratton, University of Iowa, Iowa City, USA (2007)
2. 3M ESPE Lava showed the lowest marginal and absolute marginal gap in comparison to Cercon and DCS, A. Piwowarczyk, H.-C. Lauer, Determining the marginal fit of CAD/ CAM bridge frameworks, Pan European Federation Conference (PEF; CED) #0254 (2006)
3. Lava 3-unit bridges showed smallest Marginal gap v. Etkon, Cercon brain, Cerec Inlab, F. Beuer, T. Fischer, K.-J. ERdelt, H.-U. Aggstaller, K. Spiegl, W. Gernet; (2005) IADR #1336 and *In-vitro* Study Marginal fit of Lava restorations; F. Beuer, T. Fischer, K.-J. ERdelt, H.-U. Aggstaller, K. Spiegl, W. Gernet, industrial report (2006)
4. Key Group Study, "Accuracy of fit" listed as #1 out of 16 possible attributes. 134 total doctor responses (October 2006)
5. 3M ESPE Internal 3 pt- Bending Test – ISO 6872 (September 2005)
6. 3-unit posterior bridges, P. Pospeich, University of Homburg, Homburg (Start 2000)
7. Photos courtesy of MDT V. Weber and Dr. D. Edelhoff, Aachen.
8. Photography and case study courtesy of Dr. Heather Rechtin.
9. Dentistry and clinical photography courtesy of Ariel Raigrodski, DMD, MS; Ceramics, Mr. Andreas Saltzer, CDT.

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Visit [www.3MESPE.com/lava](http://www.3MESPE.com/lava) for more information

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