

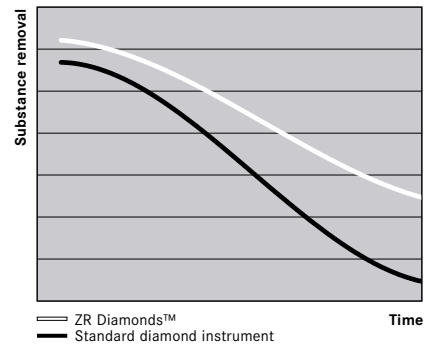
# Processing of ZrO<sub>2</sub> Zirconia | ZR Diamonds™

**Innovatively designed rotary instruments for the efficient recontouring of Zirconia in dentistry**

Zirconia is becoming an increasingly popular ceramic material for crown and bridge. It displays technologically advanced properties such as high resistance, strength, durability, aesthetic appearance and biocompatibility under varied oral conditions. However, its high resistance makes it extremely difficult to work with. Although gross contouring is performed in the dental laboratory with the CAD/CAM system, extensive manual recontouring is necessary to achieve optimal fit and aesthetics. The greatest difficulty when recontouring Zirconia is utilizing rotary instruments that are effective. The extreme hardness of the material causes conventional diamonds to dull quickly resulting in excessive operator time, frustration and expense. In comparison, extensive clinical testing has shown that the new ZR Diamonds™ are superior in efficiency for recontouring Zirconia, producing desirable results.

The unique manufacturing process, developed by Komet, permanently bonds the diamond particles in a dense, packed layer. This results in:

- Time efficiency due to longer lasting sharpness of the instruments



- Cost effectiveness due to longer service life compared to standard rotary diamonds

Easy identification with the double color band coding.

- Coarse grit ZR Diamonds™ (green band) are highly suitable for removing sprues and for gross contouring
- Medium grit ZR Diamonds™ (blue band) are less abrasive, making them better suited for smaller adjustments
- Fine grit ZR Diamonds™ (red band) produce a desirable smooth surface

ZR Diamonds™ are an indispensable tool for laboratory technicians and clinicians who work with Zirconia, to achieve optimal results in less time and with less effort.

## Application

1. Removing large sprues with ZR6830L.314.014.
2. Adjusting the prosthesis with ZR379.314.014.
3. Recontouring the substructure with ZR6881.314.016.
4. Refining the abutment interproximals with ZR862.314.016.
5. Smoothing an anterior coping with ZR8801L.314.010.



## Recommendations for use:

- Recommended speed: Optimum performance  $\odot_{opt}$  160,000 rpm.
- Use in a high-speed handpiece with air and water spray.
- Apply light contact pressure (<2N) during use.

