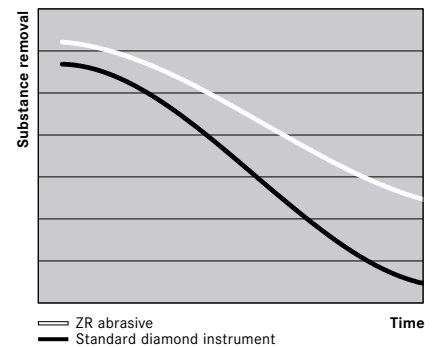


Processing of ZrO_2 | ZR-Diamonds

Special instruments for the dental practice

People attach great importance to a well-groomed appearance and personal well-being. Flawless, healthy looking teeth are a part of this awareness. Therefore, it is not surprising that aesthetically pleasing, tooth-coloured restorations gain more and more importance in the dental practice.

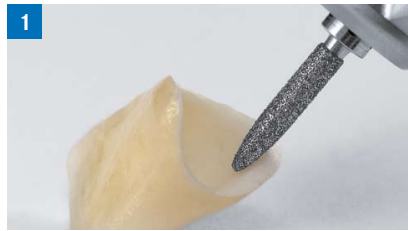
Zirconium oxide (ZrO_2) is very reliable and durable, yet difficult to work on, so that grinding of ceramic abutments, trepanation or fitting of ceramic restorations made of ZrO_2 constitute a real everyday challenge for the dentist. Comprehensive test series were carried out and as a result, we can now offer a special ZR abrasive with diamond grain, which is perfectly adapted to these special requirements. The solution is a special bond, which bonds the diamond grains durably so that these abrasive instruments feature a considerably longer operating life and material reduction compared to conventional diamond instruments (see diagram).



Different grains are available to suit the respective indications. Trepanation of ZrO_2 restorations is preferably carried out with the more aggressive instruments with coarse grain (green/white ring). When fitting the dental prosthesis, it is recommended to use the less aggressive instruments with medium (blue/white ring) or fine grain (red/white ring). The special ZrO_2 Komet abrasives are perfectly made for precise working on zirconium oxide and are sure to become an invaluable aid in every dental practice.

Application

1. Slight adaptation of the ZrO₂ crown with the ZR862.314.016.
2. Quick trepanation with the round special abrasive ZR6801.314.010/014.



Helpful hint:

To remove ZrO₂ restorations, we recommend our crown cutter for zirconium oxide 4ZR.314.012/014 (fig. 3).

Recommendations for use:

- Optimal speed: ω_{opt} 160 000 rpm.
- It is recommended to use the instruments in the red contra-angle, as the higher torque is advantageous for efficient work on ZrO₂ (compared to the torque of the conventional turbine).
- Use maximum spray coolant, especially during the trepanation procedure (min. 50 ml/min.).
- Apply low contact pressure (<2N).

Coarse Grit



Medium Grit



Fine Grit



Crown Cutter

