

ZrAdvance™ PRODUCT FACT SHEET

ZrAdvance™ all zirconia crowns and bridges were introduced in 2010. It is our own monolithic restoration which has proved to be very popular around the UK, providing an allceramic alternative to full cast or metal occlusal crowns which is still strong enough to resist forces applied by bruxers and grinders who might well have destroyed other restorations.

ZrAdvance™ is made from a zirconia that is 15-25% more translucent than the standard material and is ideal for heavy bites in the posterior region.

ZrAdvance™:

- ✓ Is made from high translucency medical grade isostatic zirconia in our Bristol milling centre
- ✓ Has a flexural strength of over 1100 MPa. At 1100 +/-50 MPa, ZrAdvance™ can be used for both single and bridge cases
- ✓ Can be made with a veneer cutback for porcelain
- ✓ Can be used in cases where the prep cannot be reduced by much. Saves tooth structure
- ✓ Shoulder prep not required
- ✓ No biocompatibility issues... Zirconia is a proven tissue friendly material for oral use
- ✓ Is backed up by Bristol Crown's service excellence and supplied with a no quibble 5 year guarantee against failure
- ✓ Matches the precise fit of all our zirconia products
- ✓ Is stained by hand to give both a dentine and enamel shading
- ✓ Virtually unbreakable AND chip-proof



ZRADVANCE™

ALL ZIRCONIA CROWNS AND BRIDGES

- VERY HIGH TRANSLUCENCY (+15%)
- ISOSTATIC
- AVAILABLE IN 20 COLOURS
- FLEXURAL STRENGTH > 1100 MPa
- 5 YEAR GUARANTEE
- TRACK RECORD SINCE 2010
- STRENGTH & BIOCOMPATIBILITY TESTED

• CEMENTATION

Conventional cementation with non expanding resin modified glass ionomer (Fuji GC or 3M Espe Rely X Unicem or Ultimate)

THE MATERIAL ITSELF

ZrAdvance™ is made from a high translucency Zirconia. There are two main factors affecting the translucency of Zirconia:

- i. **Grain size and structure** – the smaller and more homogenous the particles are, the greater the translucency.
- ii. **Aluminium Oxide** – the less AlO₂ in the Zirconia the better the translucency. However, AlO₂ is responsible for aging resistance, so really we need to keep it.

ZrAdvance™ uses high quality Zirconia with certain refinements to the grain size and crystal structure. This maintains the high flexural strength and also maintains its aging resistance while increasing the translucency by around a further 20%.