

Filtek™ Z500

Universal Restorative



Technical Data Sheet

Product description

- 3M™ ESPE™ Filtek Z500 Universal Restorative material is a visible-light activated, direct restorative nanocomposite.
- Filtek Z500 utilizes 3M ESPE's proven nanotechnology – first to introduce in composites, in 2002 by 3M ESPE. This proprietary technology results in very good polish and polish retention, low wear, excellent strength and excellent handling.
- The filler loading of Filtek Z500 is 78.5% by weight (59.5% by volume).
The resin system is the same as found in 3M ESPE's Filtek™ Z250 Universal Restorative.
- Filtek Z500 is available in 8 universal shades and one opaque shade, in capsules and syringes.

Indications

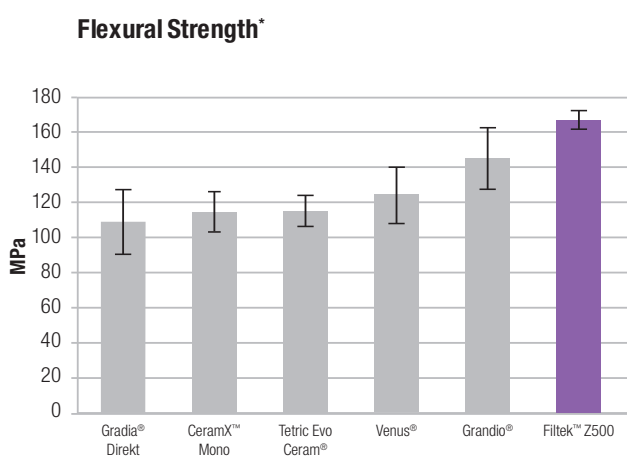
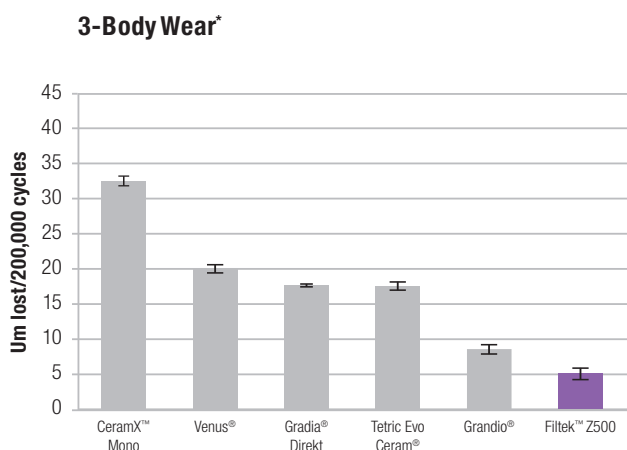
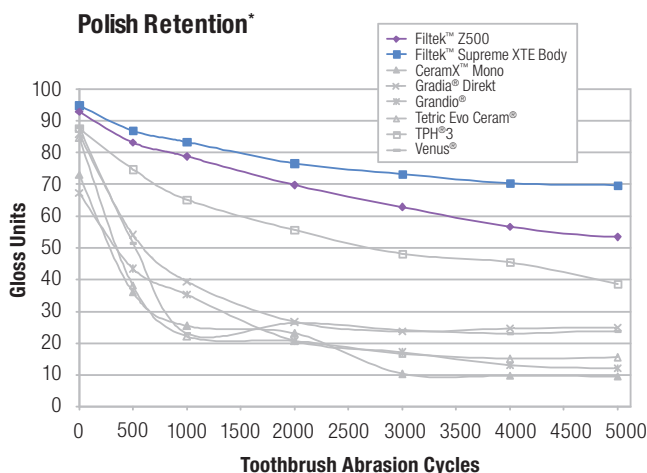
Filtek Z500 Universal Restorative is indicated for use in the following types of restorations:

- Direct anterior and posterior restorations (including occlusal surfaces)
- Sandwich technique with glass ionomer resin material
- Core buildup
- Splinting
- Indirect anterior and posterior restorations including inlays, onlays and veneers



Material Properties

Filtek™ Z500 provides significantly better polish retention, abrasion resistance (3-body wear) and flexural strength than leading competitors.



*Source: 3M ESPE internal data

Frequently Asked Questions

Do the colors of Filtek Z500 match the VITAPAN® classical shade guide?

Yes. This allows dentists to use a shade guide they already have in their office as opposed to learning a new shade system.

Can I combine Filtek Z500 with other composites?

Yes. Chemically, Filtek Z500 is fully compatible with other methacrylate composites. However, there are differences in the shade targets between manufacturers so the shade match may not be exact.

How does Filtek Z500 differ from Z100 and Z250 Restorative?

There are significant compositional differences between Filtek Z500 and both Z100 and Filtek Z250.

Filtek Z500 uses the lower shrinkage resin developed for Filtek Z250. The filler morphology is very different from both Z100 and Filtek Z250. Filtek Z500 leverages 3M ESPE's proven nanotechnology. This system provides a polish retention improvement over typical hybrids like Z100 and Filtek Z250 restorative while maintaining strength and wear resistance which allows for it to be used in both anterior and posterior restorations.



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