



**3M™ Filtek™  
Supreme Ultra  
Universal Restorative**

**36**  
shades  
**4**  
opacities

VS

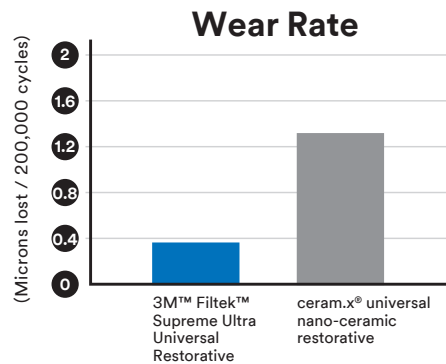
**ceram.x® universal  
nano-ceramic  
restorative**

**14**  
shades

**Choose 3M's TRUE nanofiller technology for beautiful results that last.**

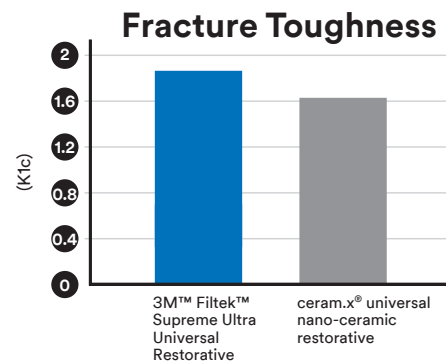
**Q** How does 3M's TRUE nanofiller technology provide a lower wear rate for better wear resistance and higher fracture toughness?

**A** 3M™ Filtek™ Supreme Ultra Universal Restorative contains 100% nanofiller, which means the primary particles are below 100 nanometers (nanoparticles). Some nanoparticles are lightly fused into secondary structures called nanoclusters, which provide a broad particle size range, allowing for high filler loading. This results in excellent physical properties such as wear resistance, making it excellent for posterior restorations. Filtek Supreme Ultra restorative has more than three times the wear resistance compared to ceram.x®, as well as significantly higher fracture toughness.



**In Vitro Wear:**  
Wear rates were determined using a 3-body, in vitro test.  
*Source: 3M internal data*

**3X** the wear resistance



To measure fracture toughness, a notch is cut into a short bar of cured material. The bar is placed on a fixture that supports either end with the notch facing downward. An anvil that applies the load is positioned above the notch and the load is increased until the sample fractures.

**Q** Don't most composite restorations have a natural gloss once they are polished?

**A** The initial gloss of most restoratives can be impressive, but you want your restoration to retain a natural gloss for years. Because of 3M's unique nanofiller technology, Filtek Supreme Ultra restorative retains its polish longer and at a substantially higher gloss level than many leading universal restoratives. Under oral challenges such as toothbrush abrasion, the wear rate of the fillers is similar to the wear rate of the surrounding resin matrix. This is why it maintains its unsurpassed polish retention for superb esthetics.

**ceram.x® loses its luster after the initial polish**



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The polish speaks for itself. Polished tiles were subjected to 6,000 cycles of toothbrush abrasion. The abraded composite tiles were photographed next to a capsule so its image was reflected in the tile. The clearer and more distinct the reflected capsule image, the smoother the surface.  
*Source: 3M internal data*

## 3M™ Filtek™ Supreme Ultra Universal Restorative

## ceram.x® universal nano-ceramic restorative

### Composition

True 100% nanofiller technology is the difference that results in high wear resistance and long-term high-gloss polish retention.

**Resin:** Bis-GMA, Bis-EMA, UDMA and PEGDMA/TEGDMA

**Filler System:**

- Non-agglomerated/non-aggregated 20 nm silica filler
- Non-agglomerated/non-aggregated 4 to 11 nm zirconia filler
- Aggregated zirconia/silica cluster filler (comprised of 20 nm silica and 4 to 11 nm zirconia particles)
  - The Translucent shades have an average cluster particle size of 0.6 to 20 microns. All other shades have an average cluster particle size of 0.6 to 10 microns

**Filler Loading:**

72.5% by wt (55.6% by volume) for the Translucent shades  
78.5% by wt (63.3% by volume) for all other shades

**Resin:** Ethoxylated Bisphenol A Dimethacrylate, Urethane modified Bis-GMA dimethacrylate resin and 2,2-Ethylendioxydiethylmethacrylat

**Filler:** Ethyl-4(dimethylamino)benzoate, Bis (4-methyl-phenyl) iodonium hexafluorophosphate and Ytterbium fluoride

**Photoinitiator:** Camphorquinone and UV stabilizer

**Filler System:**

- Barium-aluminum-borosilicate glass

**Filler Loading:**

The inorganic fillers amount to 72–73 weight-% (48–50 volume-%). The particle size ranges from 100nm to 3µm with a mean particle size of 600nm

- Iron oxide pigments and titanium oxide pigments according to shade

### Indications

Designed for beauty and strength, front to back. One composite really can do it all.

- Direct anterior restorations
- Direct posterior restorations
- Core build-ups
- Splinting
- Indirect restorations, including inlays, onlays and veneers

- Direct restorations of all cavity classes in anterior and posterior teeth
- Indirect fabrication of inlays, onlays and veneers

### Manufacturer's Claims

3M™ Filtek™ is the name trusted in more than 400 million restorations worldwide.

- True nanotechnology
- Improved esthetics
  - Improved polish retention
  - Improved fluorescence
- Easy-to-read color-coded labels
- Exceptional handling (improved Translucent shade handling)
- Broader range of Body shades
- Outstanding properties for anterior and posterior use
- In vitro wear resistance equivalent to 3M™ Filtek™ Supreme Plus Universal Restorative

- ceram.x® easily adapts to cavity surfaces but does not stick to hand instruments
- ceram.x® is easy to sculpt precisely and has high slump resistance
  - Adapts easily to cavity surfaces
  - Doesn't stick to hand instruments
  - Easy to sculpt
  - Slump resistant
- ceram.x® provides a firm consistency but is at the same time easy to extrude from Compules Tips
- ceram.x® is a nano-ceramic, light-cured, radiopaque, universal composite based on the novel SphereTEC™ filler technology indicated for both, direct and indirect restorations
- The spherical, granulated fillers consisting of submicron primary glass fillers, provide a fast and easy polishing procedure resulting in an outstanding gloss
- Long lasting restorations
  - ceram.x® is the ideal universal composite for durable stress bearing posterior restorations

### Shades

With the natural-looking esthetics of 3M™ Filtek™ Supreme Ultra Universal restorative, you can get great results even using one Body shade.

**36 shades, 4 opacities**

**Dentin Shades:** A1, A2, A3, A4, B3, C4, W (White)

**Body Shades:** A1, A2, A3, A3.5, A4, A6, B1, B2, B3, B5, C1, C2, C3, D2, D3, W (White), XW (Extra White)

**Enamel Shades:** A1, A2, A3, B1, B2, D2, W (White), XW (Extra White)

**Translucent Shades:** Clear, Gray, Amber, Blue

All shades available in 4g syringes or 0.2g capsules

**14 shades**

**VITA Classical Shade Guide:** A1; A2; A3; A3.5; A4; B1; B2; B3; B4; C1; C2; C3; C4; D2; D3; D4 and BW

- **5 CLOUD shades cover full VITA range:** A1, A2, A3, A3.5, A4, BW
  - Chameleon effect



[www.3M.com/Filtek](http://www.3M.com/Filtek)

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