

Better radiopacity lets you diagnose with confidence.



The radiopacity of a dental restorative material is an important property that allows you to distinguish the restorative material from the dental hard tissue on a radiograph. It's especially important for posterior restorations.

3M™ Filtek™ One Bulk Fill Restorative is designed with unique properties—including high radiopacity—that help you overcome challenges related to posterior restorations.

The science behind radiopacity

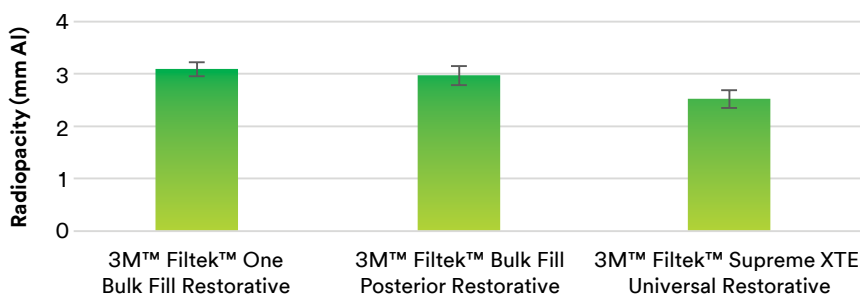
Filtek One Bulk Fill Restorative and 3M™ Filtek™ Bulk Fill Posterior Restorative contain ytterbium trifluoride (YbF₃) particles for increased radiopacity.



See for yourself

Post-op radiographic image that shows the radiopacity of Filtek One Bulk Fill Restorative. Image courtesy of Dr. Dan Poticzny

Radiopacity Comparison



To determine the radiopacity of a dental restorative material, radiographs are taken of 1mm-thick samples of restorative material and various thicknesses of aluminium, which has equivalent radiopacity to dentine. A material is considered radiopaque if its radiopacity is greater than or equal to the 1mm-thick aluminium. The higher the aluminium thickness equivalence, the higher the radiopacity of the product. The chart shows that 1 mm of 3M™ Filtek™ One Bulk Fill Restorative has the same radiopacity as 3.1 mm of aluminium.

Comparison of radiopacity per ISO 4049:2009. Source 3M Internal Data

**THE DENTAL
ADVISOR**

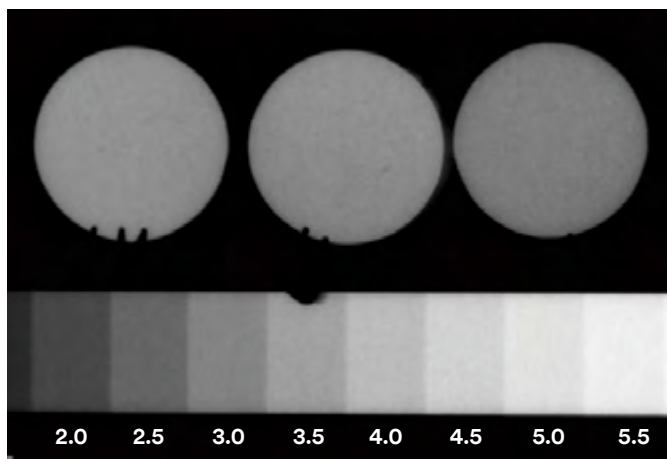
“Filtek One Bulk Fill has excellent radiopacity of 310% equivalence to aluminium.”

Source THE DENTAL ADVISOR

Excellent radiopacity confirmed by *THE DENTAL ADVISOR*™

Further testing by *THE DENTAL ADVISOR* Biomaterials Research Center (Ann Arbor, MI) confirmed 3M internal radiopacity test data.

Digital X-rays of three samples (1 cm in diameter x 1 +/- 0.03mm thick discs) of Filtek One Bulk Fill Restorative were taken alongside an aluminium step wedge using a RVG 6200 sensor (Carestream Dental) and Gendex GX-770 X-ray head under the anatomical setting.



Radiograph of 1mm thick specimens next to an aluminium step wedge with 0.5mm steps. The notch is at 3.5 mm of thickness.
Source: THE DENTAL ADVISOR

The images were analysed with Photoshop using the histogram function to determine gray levels and measure and compare the radiopacity in units of millimeters of aluminium/millimeters of thickness for each material.

Using this methodology, Filtek One Bulk Fill Restorative measured 3.1 (0.1) mm alum/mm composite. *THE DENTAL ADVISOR* concluded that "Filtek One Bulk Fill has excellent radiopacity of 310% equivalence to aluminium."



Ordering Information

3M™ Filtek™ One Bulk Fill Restorative

Refill	Item #	Item #
Shade	Syringe	Capsule
A1	4866A1	4867A1
A2	4866A2	4867A2
A3	4866A3	4867A3
B1	4866B1	4867B1
C2	4866C2	4867C2

SYRINGE SHADE REFILLS include: 1 – 4g syringe; Technique Guide; Instructions for Use.

CAPSULE SHADE REFILLS include: 20 – 0.2g capsules; Technique Guide; Instructions for Use.

For more information, please visit:
3M.com.au/FiltekOne or 3M.co.nz/FiltekOne



3M Oral Care

3M Australia Pty Limited
Building A, 1 Rivett Rd
North Ryde, NSW 2113
Ph: 1300 363 454
www.3M.com.au

3M New Zealand Limited
94 Apollo Drive
Rosedale, Auckland 0632
Ph: 0800 80 81 82
www.3M.co.nz

3M and Filtek are trademarks of 3M. Used under license. (C) 3M 2017. All rights reserved. Information correct at time of printing. Claims supported by 3M data on file or as per references. Please refer to Instructions For Use (IFU). All other trademarks are property of their respective holders.