

THE DENTAL ADVISOR™

"Improving Patient Care Through Research & Education"

3M ESPE Filtek™ Z250 Universal Restorative 9-year Clinical Performance + + + + +

3M ESPE
800.634.2249
www.3Mespe.com

Description

3M ESPE Filtek™ Z250 Universal Restorative is a direct universal composite for anterior and posterior use. The composite is filled 60% by volume with 0.01- to 3.5-µm particles. The material is available in syringes and unit-dose capsules in 15 shades.

Suggested Retail Cost

- \$290.00/syringe introductory kit
- \$295.50/capsule introductory kit
- \$85.00/syringe refill
- \$88.50/capsule refill

Evaluation Protocol

- 565 **Filtek Z250** restorations in 269 patients were evaluated during the recall period.
- Restorations ranged in age from one year to nine years (Figure 1).

Consultants' Comments

- ◆ *"If I had to choose only one composite to have in my office, Filtek Z250 would be it."*
- ◆ *"Looks great at nine years."*
- ◆ *"Surface of the composite remains smooth."*
- ◆ *"This composite can produce margins that are invisible."*

- All classes of restorations were evaluated. Nearly half of the recalled restorations involved posterior interproximal surfaces (Figure 2).
- Restorations were evaluated on a 1-5 rating scale: 1=poor, 2=fair, 3=good, 4=very good, 5=excellent.

Clinical Observations

Resistance to Fracture

Ninety-four percent of restorations recalled showed no chips or fractures (Figure 3). Four percent had minor chips that required no treatment and two percent exhibited chipping

continued on the back

AGE OF FILTEK Z250 RESTORATIONS AT RECALL

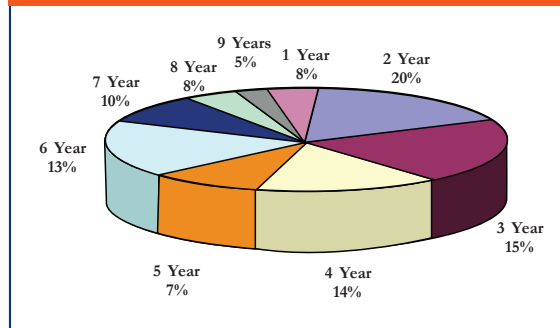


Figure 1 THE DENTAL ADVISOR

DISTRIBUTION OF FILTEK Z250 RESTORATIONS

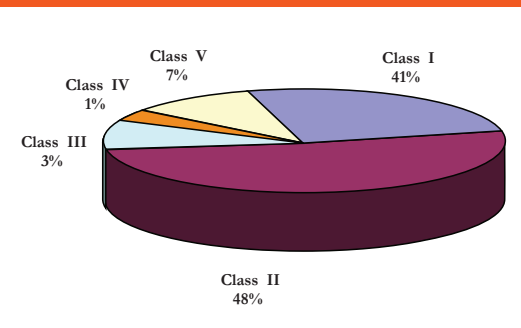


Figure 2 THE DENTAL ADVISOR

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Ratings

Excellent	+++++
Very Good	++++
Good	+++

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continued from the front

that required refinishing or recontouring. No fractured restorations were observed during this recall period.

Esthetics

Esthetics were rated very good to excellent in 98% of restorations (Figure 3). *Filtek Z250* remains smooth and the color is stable. The material blends well with the surrounding tooth structure. The appearance of these restorations has rated consistently high for the past nine years.

Resistance to Marginal Discoloration

The majority, 88%, of *Filtek Z250* restorations had no marginal discoloration noted at recall (Figure 3). While staining at the margins would be expected to increase over time, the ratings in this category have remained stable.

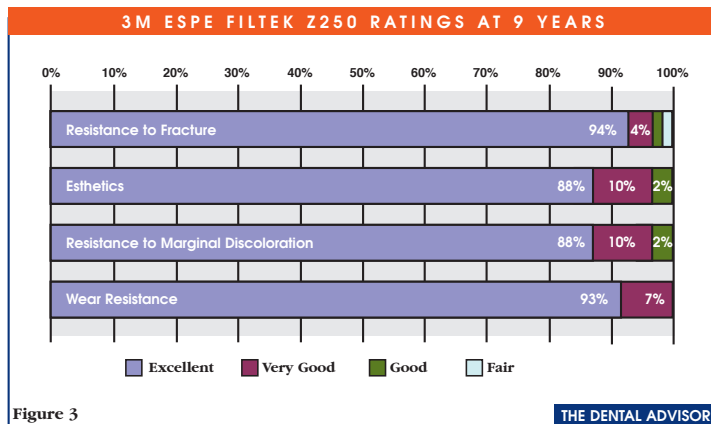


Figure 3

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Wear Resistance

Visual evaluation of wear of *Filtek Z250* earned ratings of excellent for 93% of restorations (Figure 3). This composite is performing well not only in the anterior region, but also under occlusal load in posterior Class I and Class II situations.

Summary

Filtek Z250 is a universal composite that has shown consistently high ratings for resistance to fracture, esthetics, resistance to marginal discoloration and wear resistance over nine years (Figure 4). It is an excellent choice for durable, esthetic restorations in anterior and posterior teeth. ■

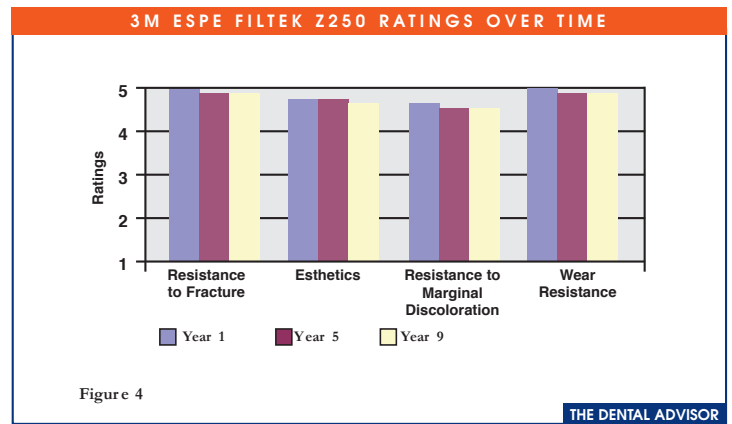


Figure 4

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