3M™ ESPE™ Filtek™ P90 is the first direct posterior composite to achieve less than 1% polymerization shrinkage, while still offering excellent handling, strong mechanical properties and a natural-looking restoration.

Volumetric shrinkage in all composites has historically, since 1950, presented a problem in the dental community so that lasting marginal integrity of the restorative material with tooth structure has remained a challenge until now. The only accepted strategy to reduce shrinkage has been to increase filler load but since shrinkage is intrinsic to resin chemistry, to date, no methacrylate-based composite has overcome the dilemma.

Scientists at 3M ESPE have revolutionized the approach to control shrinkage with the development of Silorane chemistry which utilizes ring-opening polymerization resulting in the lowest shrinking composite available on the market today. This new posterior restorative system presents a scientific breakthrough that significantly reduces the threat of shrinkage i.e. marginal gap, microleakage, secondary caries and enamel micro-cracks. 

The advanced Silorane technology has high operatory light stability, easy handling-non-sticky nature, radio-opacity, low water sorption, decreased exogonic staining and a lower bacterial adhesion rate. This superb, low-shrinking composite comes in four popular shades that easily blend with surrounding teeth along with dedicated self-etch adhesive resulting in excellent bond strength.

3M ESPE is the global category leader in restorative solutions. Filtek™ P90 joins a family of high quality, reliable restorative products from 3M ESPE designed to meet the evolving needs of dental professionals. Other members of the 3M ESPE Filtek™ family include Filtek™ Supremex XT and Filtek™ Z350 combining an optimized shading system with the advanced properties and clinical performance of a true nanocomposite. Filtek™ P90 was introduced in UAE through a two-day lecture in Abu Dhabi and Dubai with more than 200 attendees. The country’s dental community was very eager to learn about the new 3M ESPE solution, which is already available in the market in Europe and the US, and also has been launched recently in Lebanon and Kuwait. The invited dentists showed promising excitement for latest advancement in restorative dentistry and the market will be provided with the product immediately after the event.