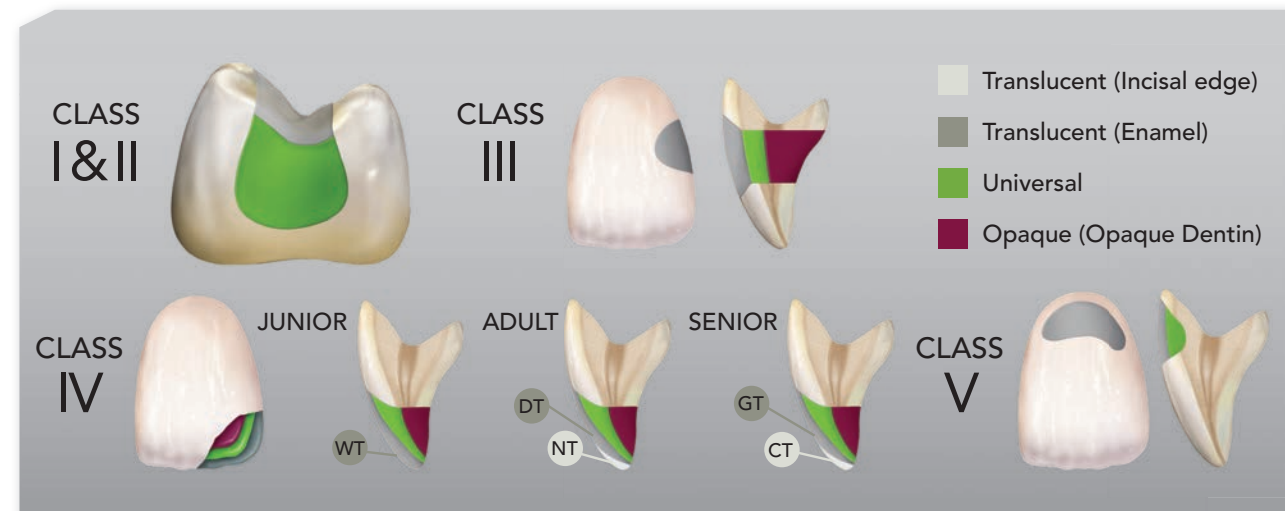
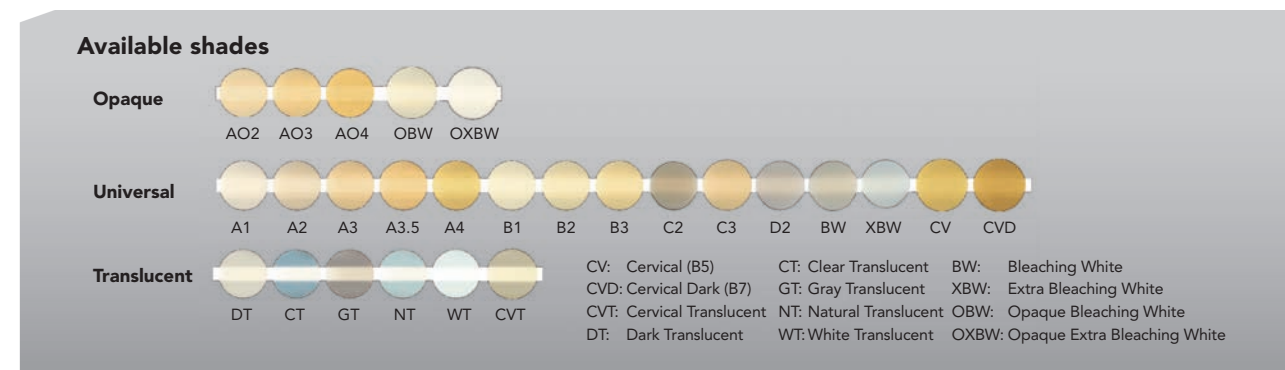


With innovation from every angle, **Kalore** represents the perfect merging of science and beauty – the **TOTAL PACKAGE** in composite restoratives that has eluded you for so long.

Kalore offers three opacities for precision shade matching and blending. In 90% of cases, the use of a Universal shade will be sufficient. In the remaining 10% – for special cases – a combination of Universal, Opaque and/or Translucent shades would be selected. **Kalore** provides you with a simplified shade system, giving you a recipe to follow for perfect results and total control in the aesthetics of your restorations.



Kalore Multi Shade Build-Up Guide

Posterior restoration



Before



After treatment - one year recall

Dr. Joseph Sabbagh,
Belgium

At the end of the day, it all comes down to how well a composite looks when a patients smiles.



SYRINGES

Trial Kit: 3 syringes: A2, A3, A3.5

Refill: 1 syringe of 26 available colours

UNITIPS

Trial Kit: 50 unitips in 3 shades: 20xA2, 20xA3, 10xA3.5

Refill: 20 unitips: A1, A2, A3, A3.5, A4, B1, B2, B3, C2, C3, D2
10 unitips: XBW, BW, CV, CVD, AO2, AO3, AO4, OBW, OXBW, WT, DT, CT, NT, GT, CVT

Note: Content per unitip: 0.16mL (0.3g)
Content per syringe: 2.0mL (4g)

SHADES

15 **Universal shades:** A1, A2, A3, A3.5, A4, B1, B2, B3, C2, C3, D2, CV (B5: Cervical), CVD (B7: Cervical Dark), XBW (Extra Bleaching White), BW (Bleaching White)

5 **Opaque shades:** AO2, AO3, AO4, OBW (Opaque Bleaching White), OXBW (Opaque Extra Bleaching White)

6 **Translucent shades:** WT (White Translucent), DT (Dark Translucent), CT (Clear Translucent), NT (Natural Translucent), GT (Gray Translucent), CVT (Cervical Translucent)

Note: A, B, C, D shades based on Vita® * Shade.

*Vita® is a registered trademark of Vita Zahnfabrik, Bad Säckingen, Germany.

ACCESSORIES

Unitip Applier II, Shade guide

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Kalore™ from **GC**
Create æ-motion
with the restorative
material of the future
with new monomer
technology from DuPont.



The Science behind the Smile – PROVEN!

An Innovation in Restorations.

GC leads the way in finding solutions for dentistry through dental materials with the introduction of **Kalore**. To address the challenge of shrinkage stress associated with polymerised composites, GC found an answer 'outside' the box.

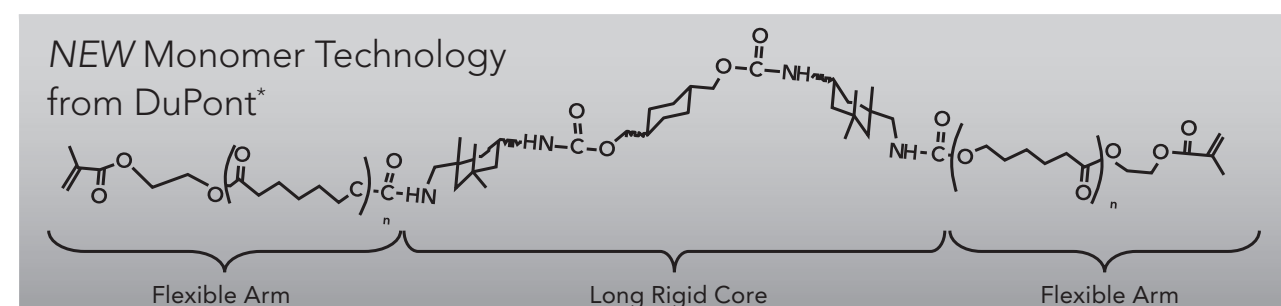
In this way **Kalore** offers you a revolutionary TOTAL PACKAGE in aesthetic restorations:

- Extended longevity and durability
- Excellent handling
- Superior Aesthetics

Incorporating the best of industrial monomer innovation from DuPont, **Kalore** features an exclusive low shrinkage technology. On a microscopic level, this means that during and after polymerisation, adhesion between the fillers and the resin matrix is maintained. With minimised shrinkage stress, the integrity of the restoration especially at the margins is ensured.

Kalore challenges the status quo by taking composite restorations to the next level – making them more sculptable, easier to polish with exceptional gloss and highly resistant to wear.

Dentistry has relied on the same basic monomer technology in its materials for decades... It's time to upgrade with **Kalore**.



*DuPont, a world leader in manufacturing synthetic materials, is renowned for developing polymer compounds such as Nylon, Teflon® and Kevlar®. From the very outset of developing **Kalore**, GC realized that monomer technology is far more advanced in industries outside of dentistry. A collaboration with DuPont was initiated, from which a new monomer technology for dental use was developed and licensed exclusively to GC. Both Teflon® and Kevlar® are registered trademarks of the DuPont Co.

Using Exclusive, New Monomer Technology from DuPont, **Kalore** truly offers the TOTAL PACKAGE of benefits that are of prime importance with composites.

Benefit 1: Extended Longevity and Durability – Sustained Form and Function

During polymerization of a composite resin, the resin matrix reduces in volume while the particles retain their prepolymerization volume. This results in stress at the filler and resin matrix interface. This stress remains within the cured composite resin and can lead to early replacement of restorations, as particles will be lost from the matrix. To reduce polymerization stress at the filler-matrix interface, lower levels of polymerization shrinkage are required.

The average restoration loses form, function and aesthetics within three to four years after placement, as the particles disintegrate due to shrinkage stress. This creates:

- Surface lustre loss
- Evident staining
- Roughened surface
- Overall greater wear and tear

Kalore features this low shrinkage stress thanks to its unique monomer technology, which means less stress around the fillers and improved durability.

Result: **Kalore** ensures extraordinary longevity of your restorations by maintaining their form and function over time.

“This new monomer formulation has solved the shrinkage challenge by removing the weak link – the shorter chain methacrylate matrix. This new system provides the potential for reducing the clinical challenges such as marginal gap, microleakage, staining and secondary caries while enhancing the aesthetics and wear resistance.”

Benefit 2: Excellent Handling – Complete Control is in Your Hands

- The DuPont monomer technology provides stiff core and flexible arms create putty-like properties, making it easier to spread
- Due to the patented HDR filler technology from **GC, Kalore** is non-sticky

Result: **Kalore** offers a balanced viscosity for your anterior as well as your posterior restorations which make it easily sculptable.

Benefit 3: Superior Aesthetics – Perfection Created and Maintained

- Exceptional gloss
- Easy polishability
- Sustained lustre

The lower shrinkage stress of the filler-matrix interface allows for less risk of filler dropout which keeps the restoration looking beautiful for a longer amount of time.

Result: Long lasting perfect restorations for you and your patients.

The proof is in the perfect results achieved by using **Kalore**.



Anterior restoration – before

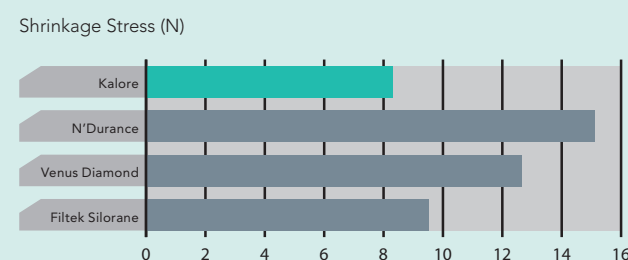


Anterior restoration – after

Dr. Ulf Kraeger Janson, Germany

Three key components factor into **Kalore's** unique design.

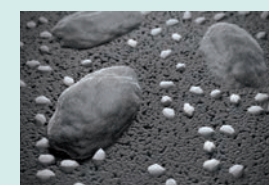
- Firstly**, DuPont's new monomer technology, licensed exclusively to **GC**.
- Secondly**, **GC's** patented HDR (High Density Radiopaque) prepolymerized fillers.
- Finally**, the proprietary interface between the filler and the matrix is a critical factor in the success and longevity of this composite.



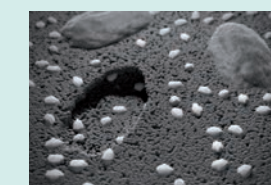
Source: GC R&D internal data, test details are available on demand and published in the Kalore technical manual. (www.kalore.eu)

Kalore clearly exhibits the lowest shrinkage stress among the materials tested.

Footprint of Filler Dropout

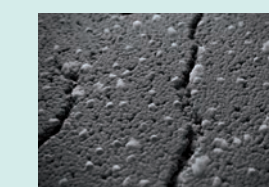
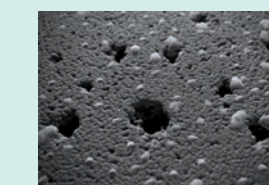


Kalore with DuPont Monomer technology: No gap on prepolymerized filler interface; no dropout fillers were observed.

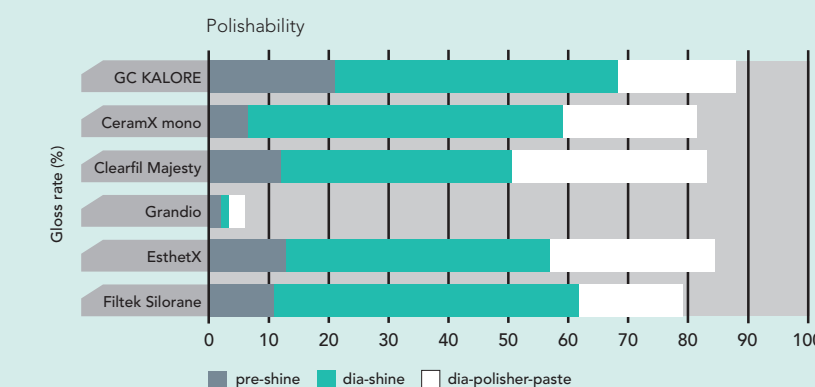


Kalore without new DuPont Monomer technology: slight gap on prepolymerized filler surface; dropout prepolymerized fillers were observed.

Footprint of Filler Dropout



Examples of competitive products



Source: GC R&D internal data, test details are available on demand and published in the Kalore technical manual. Protocol: Sample surface is grinded with #600 grid paper. The polishing is then done in three steps according to GC protocol, 2 minutes for each step: Pre-Shine, Dia-Shine and Dia Polisher paste. The surface gloss is measured after each step.