

It's about  
red and  
white ...

## GC GRADIA

Light-Curable Micro-Ceramic  
Composite

## GC GRADIA gum shades

Light-Curable Gum Shade System

**GC**



... red and white aesthetic restorations



in perfect harmony for the perfect smile!

When you want to use a composite restorative and the quality of your work demands using only the best, there is no finer system than GRADIA. Years of experience have shown that with GRADIA you can create beautiful, life-like restorations without the 'paleness' of traditional composites as well as restorations with all the toughness of natural teeth.

Another benefit with GRADIA is that GRADIA gum shades, our gingiva build-up composite, is an integral part of the GRADIA system. Used separately, each product gives superb results. But if a patient requires teeth and gum restorations where their 'white' and 'red' aesthetics need to be finely balanced, then the complete system is ideal. The shades and accessories of both products are fully harmonised so you can precisely colour match your restorations to the patient and to each other, regardless of age or ethnicity.

So for a system that will challenge and inspire your creativity, and help you achieve the highest level of 'red and white' aesthetic artistry, try the GRADIA 'red and white' composite system.



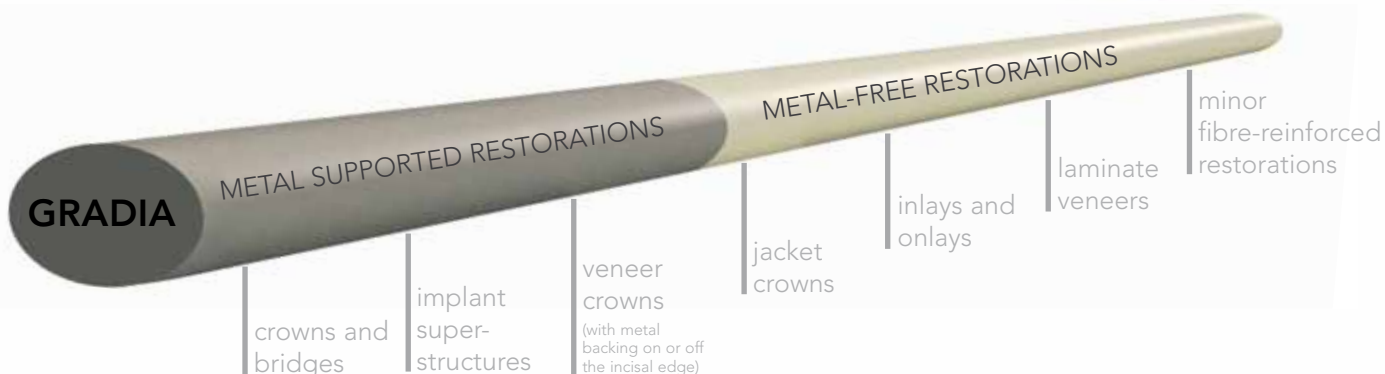
# GC GRADIA

## for superior 'white' aesthetics

Traditional composites give strong and durable restorations but their aesthetics are generally not as good as a porcelain. In particular, their pale opalescence and fluorescence make reproducing natural tooth colour difficult, especially when viewed under the light conditions normally found in the oral cavity. All that has changed however, with the introduction of GRADIA.

### A WIDE RANGE OF INDICATIONS

GRADIA is a light-curable micro-ceramic-composite resin that is ideal for creating all types of anterior or posterior restorations, using any framework.



GC GRADIA  
posterior metal  
supported crown



GC GRADIA metal supported bridge



GC GRADIA anterior  
jacket crown



GC GRADIA inlay



GC GRADIA  
laminate veneer



GC GRADIA fibre-  
reinforced  
restoration



## NATURAL CHROMA AND OPALESCENCE

The dentin layers with GRADIA have an enhanced brightness and masking ability that adjusts the opalescence of the composites and subdues the paleness of resin. This gives a bright colour tone in the oral cavity and eliminates unnatural translucency at the incisal edge.

GRADIA has a more natural opalescence compared to the more pale opalescence of conventional composites.



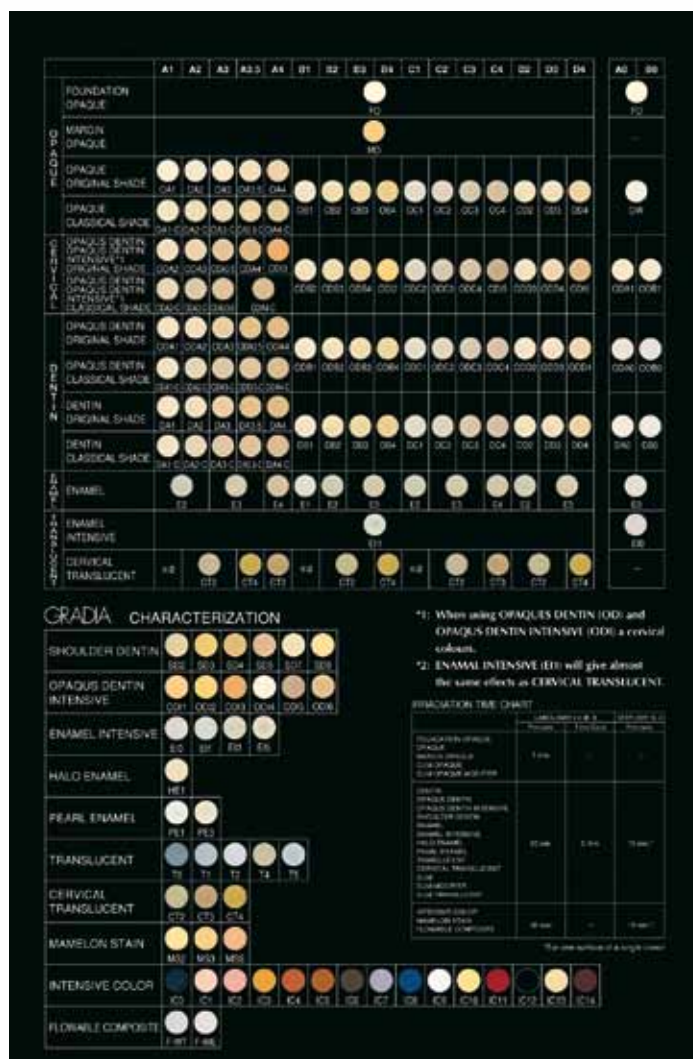
Jacket crown made with conventional composite (11)

Jacket crown made with GRADIA(21)

A comparison of fluorescence on a black background - as in the mouth - shows that GRADIA has a more natural fluorescence than other products.



## GC GRADIA SHADE CHART



## OPTIMISED AND HARMONISED SHADES

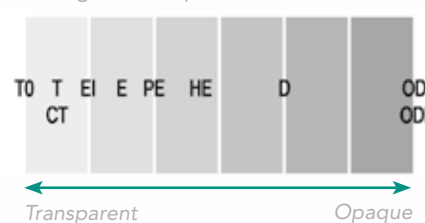
By optimising chroma, fluorescence, opalescence and transparency, even the thinnest layers of GRADIA produce excellent colour-matching comparable to natural dentition. The layering shades of GRADIA are harmonised to compliment each another, so no matter what tooth shade or characteristic you have to match, creating a life-like restoration is simple. To add individual touches and accents, a variety of unique stain and effect shades have been developed for internal layering.



GC GRADIA (AO)

Bleach shades are also available of which there are two dentins: DA0 and DB0, one opaque OW and two adapted enamels.

### Masking effect of pastes



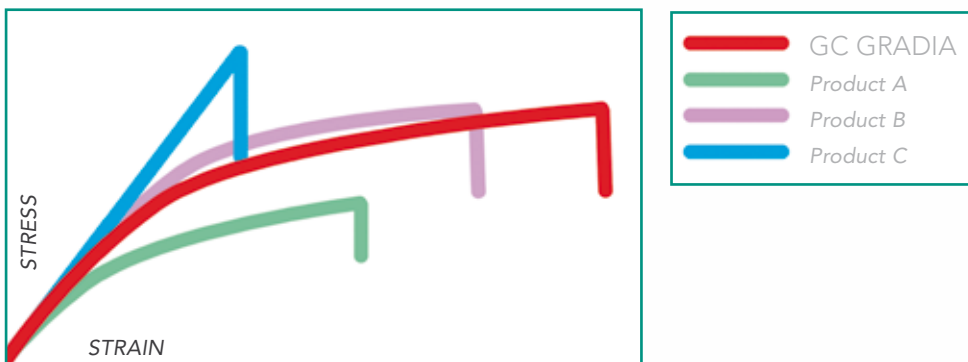


# GC GRADIA

## Strong, durable, beautiful

GRADIA is an advanced 'MFR composite'. Its internal structure consists of reinforced bonds between an organic/inorganic filler and a lightly-filled matrix resin which together impart a very high mechanical strength whilst being 'gentle' on opposing teeth. This makes GRADIA particularly suitable for posterior high-wear, high-pressure restorations that are prone to chipping or cracking when made with porcelain. The composite is also simple to handle, biocompatible, very technique tolerant and can be easily polished to a beautiful natural gloss.

STRESS-STRAIN CURVE (fracture resistance)

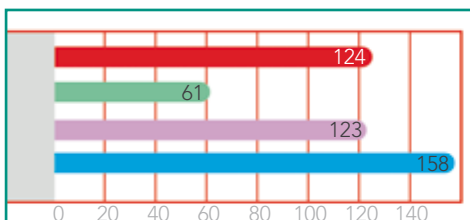


Product A: Conventional composite

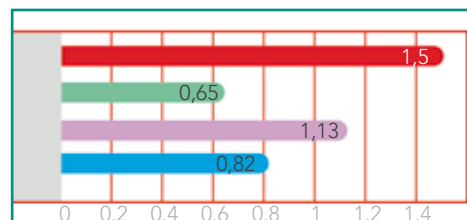
Product B: Last-generation composite for restorations

Product C: Hybrid composite

FLEXURAL STRENGTH (MPa)

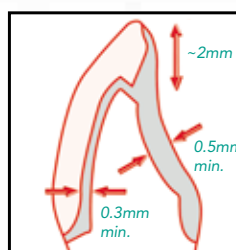


FLEXURAL ENERGY (MPa)

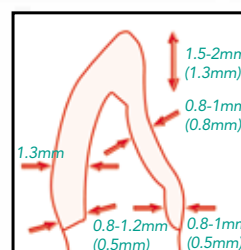


## ONE SIMPLE BUILD-UP TECHNIQUE

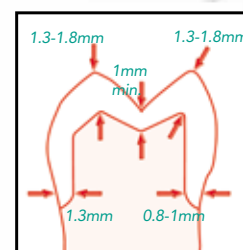
As all GRADIA shades are harmonised you only need to learn one simple build-up procedure. Whether using standard or multi-layer techniques, you don't have to adjust your technique for different indications. The system also comes with preparation forms so you can obtain from the dentist all the required case information before you start work.



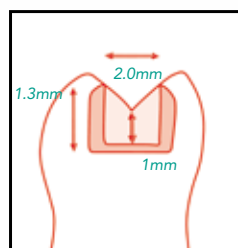
Anterior veneer crown  
(with metal backing  
up to incisal edge)



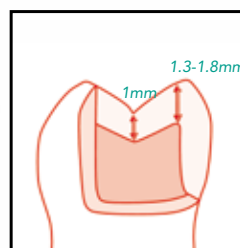
Anterior jacket crown



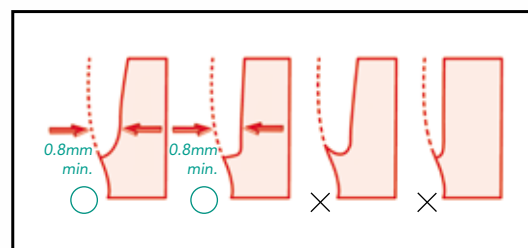
Posterior jacket crown



Inlay



Onlay



Preparation of margin

By means of a simple standardised build-up technique, life-like aesthetics can be reproduced.



Uniform application of  
the Opaque



Application in the  
cervical area of the  
corresponding  
Opagues Dentin



Translucent shield  
(optional)



Application of Dentin



Application of  
Translucent stain and  
effect shades  
(optional)



Finished crown after  
application of Cervical  
Translucent and Enamel  
Intensive shades





# GC GRADIA gum shades for superior 'red' aesthetics



For life-like gum restorations it is just as important to use a composite system which makes the most of your 'red aesthetic' skills, as it is to use your 'white aesthetic' skills to create life-like teeth. This is where GRADIA gum shades comes in.

## WIDE RANGE OF INDICATIONS

GRADIA gum shades is a specialised light-curable micro-composite that can reproduce gingival tissues for indications such as implant superstructures and other fixed or removable prostheses like crowns, bridges and partial dentures.

## STRONG, DURABLE AND IN A VARIETY OF RED SHADES

The strength, durability and handling properties of GRADIA gum shades are all very similar to GRADIA. It also has a wide variety of red shades so you can closely match a patient's gingival tissue regardless of their age or ethnicity.

## THREE COMPOSITE VISCOSITIES

To reproduce different areas of gingival tissue, the GRADIA gum shades composite comes in three viscosities; a liquid (GRADIA gum shades Opaque), a paste (GRADIA gum shades Body) and a gel (GRADIA gum shades Modifier and GRADIA gum shades Translucent). When combined with the harmonised colour system, you get an almost unlimited number of colour and texture combinations.




For example, there are many ways GRADIA gum shades could be used to to recreate the natural gum tissues shown here in the pictures. One possible method to reproduce the gums in the left-hand picture would be to use GRADIA gum shades Opaque GO11 combined with GRADIA gum shades G21, whilst for the gums in the right-hand picture you could use a combination of GRADIA gum shades Opaque GO13 and GRADIA gum shades G24.





## GC GRADIA GUM SHADES COLOUR CHART



OPAQUE	GUM OPAQUE	GO11	GO12	GO13	GUM FIBER		GF71
	GUM OPAQUE MODIFIER	GOM51					
BODY	GUM	G20	G21	G22	G23	G24	
MODIFIER	GUM MODIFIER	GM30	GM31	GM32	GM33	GM34	GM35
TRANSLUCENT	GUM TRANSLUCENT	GT41					

## EASY TO BUILD

Just like GRADIA, GRADIA gum shades has only one simple build-up procedure for standard or multi-layer techniques so you don't have to adjust your technique for different indications. Each step is repeatedly pre-cured according to specific pre-set curing times. And that's all there is to it!



## RED AND WHITE IN PERFECT HARMONY

When creating teeth and gum restorations for the same patient it's important to balance their red and white aesthetics. GRADIA gum shades is harmonised to both the GRADIA composite system and our Initial Ceramic System, so whichever material is preferred, it's easy to get the right aesthetic balance for your restorations. There are also accessories like primers to integrate the different systems. For details on GC Initial visit [www.gcinitial.gceurope.com](http://www.gcinitial.gceurope.com).



GC GRADIA with GC GRADIA gum shades



GC GRADIA gum shades with GC Initial Ti





# The GC GRADIA system

## Sets and accessories for every need

GRADIA and GRADIA gum shades are packaged into convenient, environmentally-friendly syringes and sold as sets. Refills of both products are also available.

### GC GRADIA Standard Set

Designed for standard layering and to meet the 'standard' requirements of the Vitapan® Classical shade guide. Contains all the fundamental opaque composites, shade composites and liquids.  
(6 V-shades, total of 26 syringes).



### GC GRADIA Master Set

Designed for multi-layering, this set contains the full range of shades and accessories required for high-end aesthetics.  
(10 V-shades, total of 57 syringes).

\*All shades are matched to the Vitapan® Classical shade guide.  
Vita® is a registered trademark of Vita Zahnfabrik, Bad Säckingen.



### GC GRADIA Intensive Colour Set

Staining shades to achieve maximum aesthetics. (11 shades).



### GC GRADIA gum shades Starter Set

Contains the key gum composites, shades and liquids plus accessories. Order refills when required. (17 shades available).



### BONDING PRIMERS

The GRADIA system has a range of primers for bonding different materials during restoration. Composite Primer bonds composites and is also for bonding when individualising artificial teeth and acrylic denture bases. MetalPrimer II bonds acrylics and composites to metals, whilst GC Ceramic Primer bonds resins, composites and acrylics to ceramics.

### OTHER ACCESSORIES



GC GRADIA  
Separator  
(liquid 5ml)



GC GRADIA  
Die-Hardener  
(liquid 5ml)



GC GRADIA  
Dia Polisher  
(8g cad)



GC GRADIA  
Air Barrier  
(liquid 10ml)



Syringe Plunger



Shade Guide Kit



GC STEPLIGHT  
SL-1

For smooth pre-curing in 10 sec. irradiations with minimal repositioning.



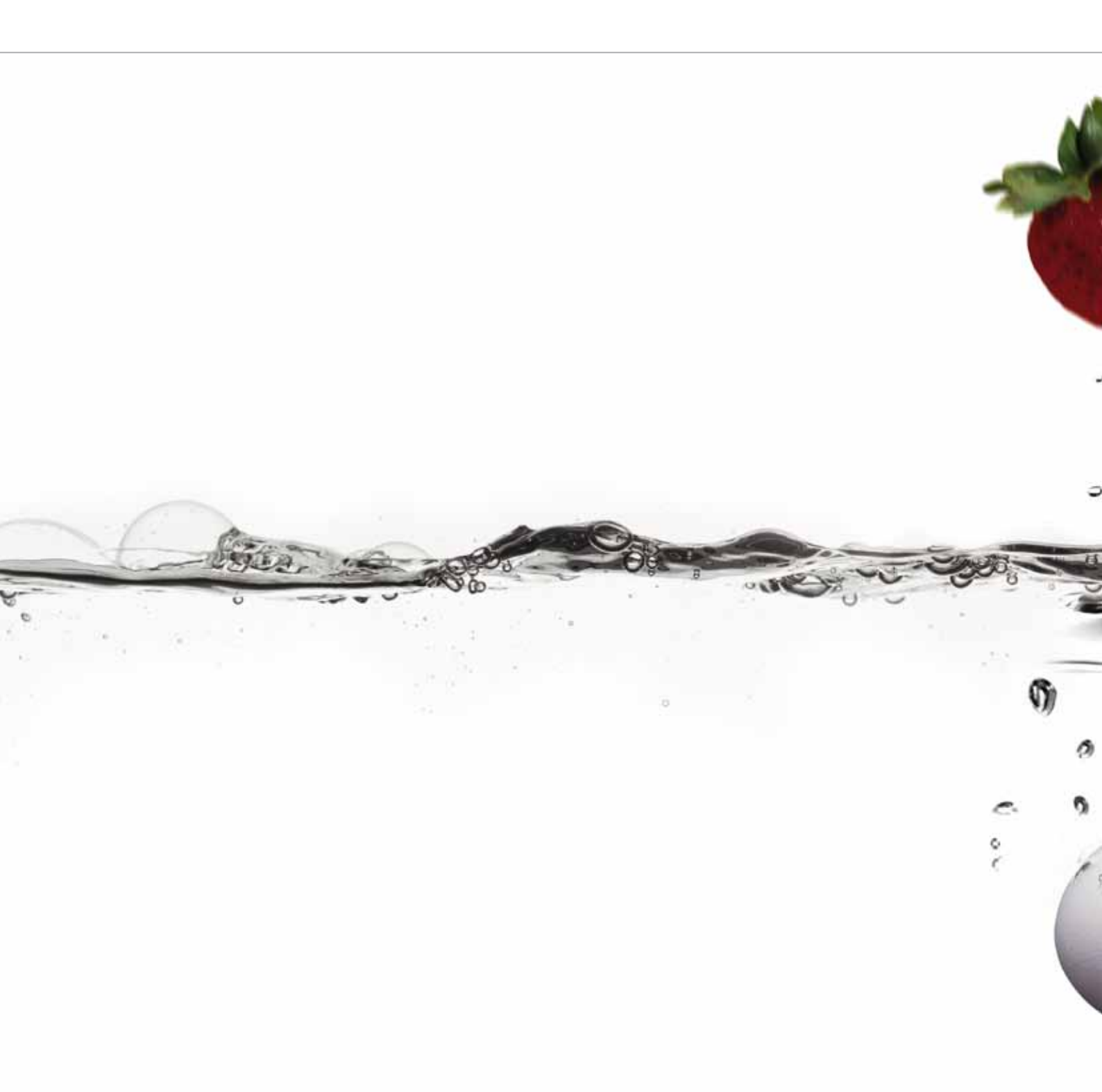
GC LABOLIGHT  
LV-III

For the full curing of resins with accurate and uniform irradiation.

# Create perfect smiles with the GC GRADIA 'red and white' system.

Contact your local GC representative today.





**GC EUROPE N.V.**

Head Office  
Researchpark Haasrode-Leuven 1240  
Interleuvenlaan 33  
B - 3001 Leuven  
Tel. +32.16.74.10.00  
Fax. +32.16.40.48.32  
info@gceurope.com  
<http://www.gceurope.com>

**GC UNITED KINGDOM Ltd.**

12-15, Coopers Court  
Newport Pagnell  
UK - Bucks. MK16 8JS  
Tel. +44.1908.218.999  
Fax. +44.1908.218.900  
info@uk.gceurope.com  
<http://uk.gceurope.com>

**GC**