

CARMEN®

Symbiosis of
Aesthetics and Safety



Perfect Aesthetics

Excellent colour stability

The thermo colouration process

The thermo colouration process, developed exclusively for the colouration of CARMEN®, CCS and Triceram®, guarantees homogenous and lasting colour, even after multiple firings. The process of thermo colouration creates the colour pigments during production. This is why the shades remain stable when the dental technician is at work. Even after multiple firing the shade, translucence and opalescence will not change.



Why the micro-crystalline structure is special

Natural light refraction

The micro-crystalline structure enables a natural diffraction and transmission of light to occur within the material. It is therefore possible to reproduce a tooth with the same aesthetical and optical characteristics as its natural model. Due to the chameleon effect, the colour matches the neighbouring teeth optimally, shade corrections are therefore unnecessary. The captivating brilliance in colour, an outstanding illusion of depth and exceptional vitality possible with CARMEN® cannot be matched to this perfection by any other ceramic to date.

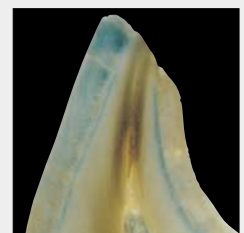


Fig. left: Metal-ceramic crown veneered with CARMEN®



An exceptional Class of Quality

Exceptional, consistent and high material stability

working safety

During the production of CARMEN®, the raw product is put under extreme conditions such as thermal treatment and the thermo colouration process. Before it is ready for use, CARMEN® has already been tested beyond the normal applicatory requirements. Having successfully endured such intense conditions during production, CARMEN® guarantees a high level of safety during processing. The CTE remains consistent even after multiple firing. With its micro-structural build up, this is a material with exceptional form and edge stability, therefore no rounding or sagging of the edges.



Many years of experience

The basis of great reassurance

Amongst the many new ceramics worldwide, CARMEN® is the classic synthetic, leucite-glass ceramic. CARMEN® was successfully introduced onto the market more than 8 years ago as one of the first synthetic, leucite-glass ceramics. Customer satisfaction proves its success. Only CARMEN® can offer this kind of longstanding safety and reliability, with its captivating brilliance of colour. Many years of clinical experience guarantee, CARMEN® is a product of exceptional quality.



Fig. left: CARMEN® raw material

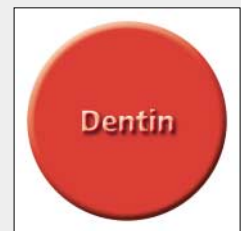


Processing Safety and Flexibility

Easy and safe processing

Low fusing temperatures, easy layering with great processing tolerance

Due to the low firing temperatures (870°C) for dentine and correction bakes, the alloys are put under less stress. CARMEN®, a synthetic, leucite-glass ceramic, has been developed according to the classical VITA* shade system. Using simple layering techniques, you can save time reproducing the aesthetics of natural dentition. The exceptional processing tolerance of the product components and the material's high stability, provide you with maximum processing safety and flexibility. CARMEN®'s simple, quick and safe layering technique add to the value of your laboratory. Use this to your advantage.



Staying independent and flexible

Freedom of choice with the alloy

With CARMEN® you are not forced into a system. CARMEN® is compatible with a whole range of bonding alloys within a CTE range of $14,1 \times 10^{-6}/K$ to $15,3 \times 10^{-6}/K$ at $25^{\circ}C - 600^{\circ}C$ and $13,9 \times 10^{-6}/K$ to $15,1 \times 10^{-6}/K$ at $25^{\circ}C - 500^{\circ}C$. CARMEN® is especially suited to *remanium*® star and other Dentaaurum alloys, and due to its low firing temperature it is also compatible with Galvanogold and the temperature sensitive, high noble, bio-compatible alloys. Your advantage: Work with CARMEN® together with your favourite alloy and rest assured that we at the Dentaaurum Group have done everything in our power to guarantee you complete compatibility within the system. This flexibility gives you greater leeway to provide your patients with a more individual service.

Fig. left: cross section of a natural tooth

*VITA is a trademark of the company VITA Zahnfabrik, Bad Säckingen



Esprident – a Company within the Dentaureum Group

In-house research, development and production

Highest quality standard

A specialist team, consisting of material scientists and dental technicians, in the Dentaureum Group develops ceramic products and new innovative product technologies. High quality raw materials and in-house production with a modern machine park guarantee top quality standards.



Competence through service

Higher worth through advice and support

A product is only successful when advice, training and service are in tune with one another. Our demonstrators are available to support you personally in your own laboratory with their technical expertise. The Hotline, the direct line to Esprident, is open weekdays for all technical questions. You can visit us around the clock in the internet for up-to-date information about our ceramic system, in five different languages. Instructions for use, processing tips, special offprints and a lot more is available for you to download from our web-site.



Most Important at a Glance



CARMEN®, a versatile ceramic system

The well co-ordinated accessories

From the ceramic furnace Espritec 100 to paintbrushes, it's all available from one source. The ceramic system CARMEN® is perfectly compatible with the refractory die material Esprivest Ultra which enables the production of inlays, onlays, veneers and metal-free crowns. Alloys and investment materials round the off the system perfectly.



CARMEN® assortment

Starter set

- 1 Universal paste opaque
- 1 Opaque dentin
- 1 Dentin
- 1 Incisal transparent
- 1 Neutral transparent
- 1 Stains universal liquid
- 1 Universal paste liquid
- 1 Modelling liquid LV universal

Combi set

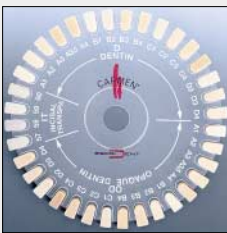
- 2 Universal paste opaque
- 2 Opaque dentin
- 2 Dentin
- 1 Incisal transparent
- 1 Neutral transparent
- 1 Incisal opalscence
- 1 Stains universal liquid
- 1 Universal paste liquid
- 1 Modelling liquid LV universal
- 1 Opaque brush No. 6
- 1 Foam drawer insert

Master set

- 16 Universal paste opaque
- 16 Opaque dentin
- 16 Dentin
- 4 Incisal transparent
- 1 Neutral transparent
- 1 Dentine intensive
- 1 Stains universal liquid
- 1 Universal paste liquid
- 1 Modelling liquid MV universal
- 1 Modelling liquid LV universal
- 3 Foam drawer insert
- 1 Colour wheel base materials

Stains universal set

- 15 Stains universal
- 1 Stains universal liquid
- 1 Shade guide for stains universal



CARMEN® Product Components

Products	Components
Universal paste opaque	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
Shoulder SM	A, B, C, D, white, yellow, orange, transparent
Cervical C	A, B, C, D
Opaque dentin OD	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
Dentin D	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4
Opaque dentin intensive ODI	yellow, ochre, salmon, caramel
Dentin intensive DI	orange
Arteline AL	Ivory, yellow, golden yellow, honey yellow, lemon, olive
Incisal transparent IT	57, 58, 59, 60
Incisal opalescent IO	57, 58, 59, 60
Neutral transparent NT	NT
Transparent opalescent TO	64
Neutral transparent Opal NTO	65
Incisal II	62, 63
Correction CM	CM
Gingival G, GD	light, dark
Stains UNIVERSAL	0, 1, 2, 3, 45, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
liquid	Universal paste liquid, shoulder material liquid, stains universal liquids, modelling MV and modelling LV

The CARMEN® product components are fully compatible with the CCS system.

Service



It is of great importance to us to be able to advise and support our customers, both at home and abroad. A team of experienced ceramists is available to answer the most difficult of questions.

Fax +49 (0) 7231 / 803-321



A successful piece of work depends not only on the quality of a product, but also the profound knowledge and experienced workmanship with the product. In our Centre of Dental Communication (CDC), we can offer you practise orientated courses, seminars and training with experienced teachers. We will be pleased to send you our current course program. Any questions concerning the course program and the teaching personnel can be answered by our committed training team.

Training: +49 (0) 7231 / 803-470



Our dental technical advisors will be pleased to answer any questions regarding the use of our products.

Hotline: +49 (0) 7231 / 803-440



Up-to-date information and instructions for use about the Esprident ceramic systems can be found in the internet. Instructions for use, processing tips, special offprint and much more can be downloaded from our web-site.

www.esprident.com

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Pictures references:

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ESPRI DENT