



CeHa White ECS[®]
powered by VITA In-Ceram[®]

> > > **PRODUCING WHITE FRAMEWORKS
IN A FAST, PRECISE
AND COST EFFECTIVE MANNER**

C. HAFNER 
FOR DENTAL EXCELLENCE

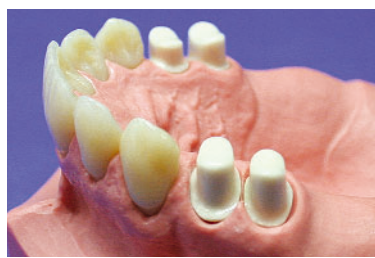
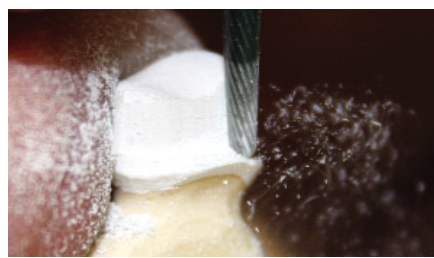
> > > **THE RESULT**
WHITE. IT'S AS SIMPLE AS THAT

Results that speak for themselves.
Aesthetics, strength and biocompatibility
that satisfy even the most ambitious user.

Crowns



Primary Units



Three-unit-bridges



Benefits

Perfect fit

Natural aesthetics

High strength

Excellent biocompatibility

> > >

THE TECHNOLOGY ELECTROPHORESIS

The level of aesthetics and biocompatibility expected from dental restorations is rising constantly. Concurrently, the demand for white ceramic frameworks is also on the rise, since a white, "natural" material is best suited to meet these expectations.

C. Hafner has been setting standards by pioneering simple and smart technology in electroplating technology (galvanofarming).

Now, C. Hafner presents another innovative system for producing white restorations:

CeHa WHITE ECS® powered by VITA In-Ceram®.

With its precision technology, ease of handling and convincing results, this system is the trailblazer for the entire market.

The technological advantage is created by the electrophoretic deposition (EPD) process.

Comparable to electroplating, electrophoresis means the migration of electrically charged particles in a liquid medium and an electrical field that is as homogenous as possible.

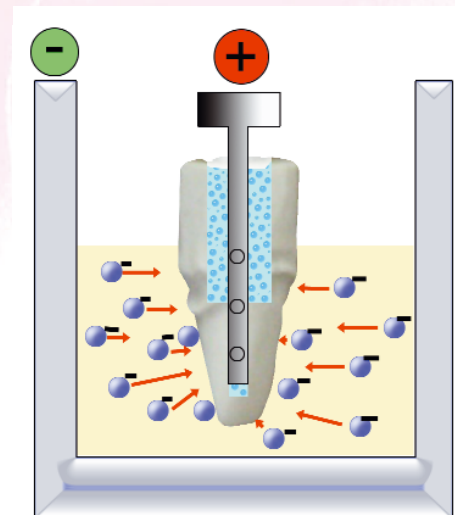
Two process phases can be distinguished in EPD:

1. Electrophoretic migration of the electrically charged particles of a suspension within an electrical field.
2. Deposition of the particles directly on an electrode (direct deposition) or on a membrane (membrane deposition).

The **CeHa WHITE ECS®** process uses membrane deposition, in which ceramic particles are deposited on a die to create a framework (coping).



Submerge, turn on, done. It's as simple as that



Ceramic particles are precisely deposited on a die

Benefits

Perfect fit

Excellent cost/benefits ratio

High strength

Uniform and homogenous layers

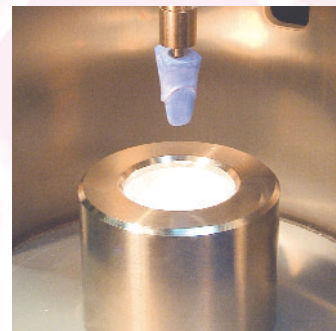
> > > THE UNIT CeHa WHITE ECS®

The **CeHa WHITE ECS®** unit is characterized by precision, easy operation, speed and attractive design.

The ceramic framework manufacturing process for one coping completely prepared for porcelain veneering takes just 20 minutes manual working time. No scanning, no shipping and no extensive capital investment are required.

The whole process is surprisingly simple. The ceramic slurry is mixed and transferred to the ECS® unit. The subsequent process is started using the menu-driven display.

Handling is extremely easy. Your qualified staff can now concentrate fully on the ceramic veneer.



Benefits

Perfect fit

Minimal capital investment

Small footprint

Simple user interface

The process is surprisingly simple: Mix the ceramic slurry, submerge, withdraw – and create the perfect framework

THE MATERIAL

> > >

VITA IN-CERAM® ALUMINA AND ZIRCONIA

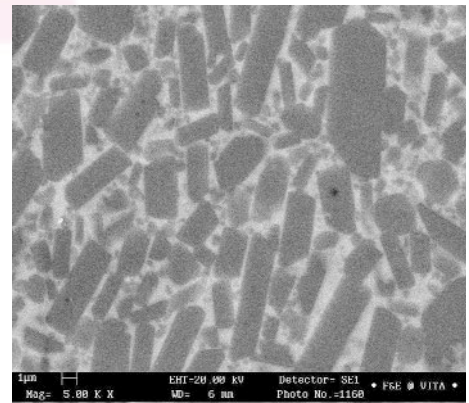
The **CeHa WHITE ECS®** process uses ALUMINA®, and ZIRCONIA® from VITA Zahnfabrik. These materials have been successfully used for innumerable restorations over the past 15 years.

CeHa WHITE ECS® utilizes the advantages of colourless corundum and white ZIRCONIA. A sintering process takes place at a temperature of 1120°C or 1180°C with ZIRCONIA far below the melting point of corundum. In this sintering process, the alumina particles undergo superficial diffusion and form links at their contact points. The structure thus obtained has a chalky-soft consistency and is easy to work with.

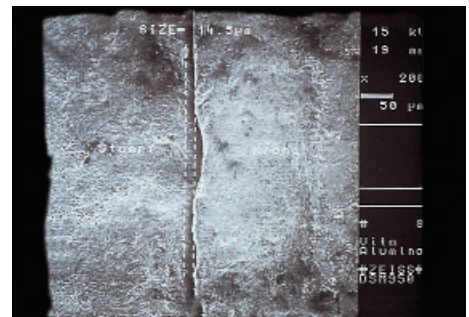
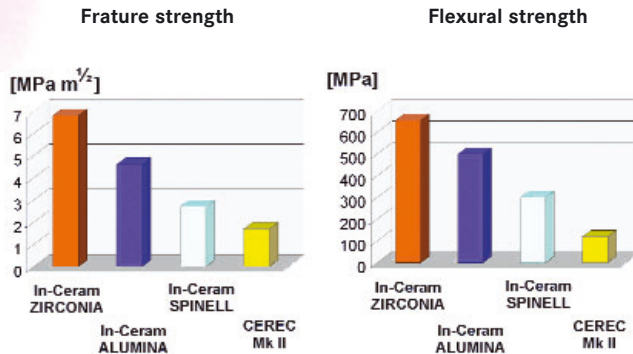
It is not until the following step, the infiltration of glass, that **CeHa WHITE ECS®** Alumina receives its high strength, typical tooth colour, and translucency. A special glass is used for glass infiltration that is characterized by excellent wettability on corundum and low viscosity at an infiltration temperature of 1100°C, in order to completely fill the free porous space between the alumina particles.



Corundum is the base material of In-Ceram; here: sapphire variety



Cross-section of infiltrated VITA In-Ceram® Alumina on a scanner electron microscope. Magnification x 5,000



Measuring the marginal gap of a cemented VITA In-Ceram® Alumina coping. Gap width: 14.5 µm (Professor H. Kappert)

Benefits

Perfect fit

Over 15 years clinical experience

Fine aesthetics

High functional strength because of excellent physical values

THE EQUIPMENT

> > > TECHNICAL SPECIFICATIONS

CeHa WHITE ECS® unit

Dimensions (W x H x D): 33 x 23 x 18.5 cm

Weight: 4.8 kg

Voltage: 110 -240 VAC

Power: 12 W



CeHa WHITE ECS® product line

Starter kit for approximately 100 copings.

Includes all materials needed for a successful start.



CeHa WHITE ECS® HEAT

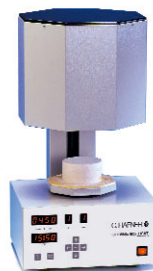
Voltage: 230 V AC

Power: 1500 W

Weight: 19 kg

Dimensions (B x H x T) 31 x 56 x 33 cm

Chamber volume: 0.8 l



VITASONIC II

Dimensions: 22 x 9.5 x 17 cm

Bath: 19 x 8.5 x 6 cm

Capacity: 0.8 l

Weight: 2.2 kg

Voltage: 220-240 Volt

Frequency: 25 KHz



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