

# DALE DENTAL

## PRODUCT TECH SPECS

### Cercon Smart Ceramics®

**MANUFACTURER** – Dentsply Ceramco, www.dentsply.com, 800.877.00207

**YEAR LAUNCHED** – 2002

**AVAILABLE AT DALE DENTAL SINCE** – 2002

**CERTIFICATIONS** – Dale Dental is a Certified Cercon Smart Ceramics Laboratory

**DESCRIPTION** – Cercon single units and frameworks are fabricated using a CAM (computer aided manufacturer) process. The restoration is first designed in wax on a conventional working model. The waxed restoration is sprued into specialized holding blocks and placed in the Cercon Brain for scanning where a confocal, class II laser takes precise measurements of the pattern. The data is then enlarged by the Cercon Brain to allow for shrinkage that will take place during the final sintering. A zirconia block is then milled to replicate the expanded pattern and is placed in a specialized sintering furnace where final sintering takes place.

Learn more at [www.DaleDental.com](http://www.DaleDental.com)

**FUTURE INFORMATION** – Cad scanning for uniform thickness copings

### RESTORATION SELECTOR SMARTCHART

Indications		
<b>Single Unit</b> Yes	<b>Bridges</b> Any bridge configurations up to 47 mm in length — typically up to 8 units	<b>Laminates</b> No
<b>Inlay/Onlay</b> Yes	<b>Material</b> Yttria-stabilized Zirconia	<b>Flexural Strength</b> 900 MPa
<b>Thickness</b> .5 mm	<b>Span</b> Up to 47 mm	<b>Prep Type</b> All ceramic
<b>Coping Color</b> White or A2 Shaded	<b>Translucency</b> Low	<b>Cements</b> Contact manufacturer for details
<b>Turnaround</b> Next Day, 2 Day, 3 Day, 4 Day, 5 Day	<b>Porcelain Type</b> Contact manufacturer for specific details and compatibility	<b>Porcelain Trial Sizes</b> Available at Dale Dental Yes

### LABORATORY PREPARATION

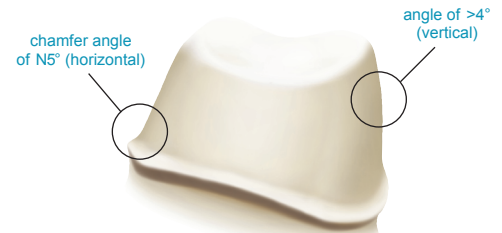
Start with a model made from a class IV, or equivalent die stone. The model base should have a smooth bottom. All segments of the saw cut model have to be removable and secured against rotation. Working models must be pinned and cut with all sections removable. A coping of uniform thickness will be fabricated when model work is not sent with single unit cases. Bulk trim dies to reveal an accurate view of the finish line and mark the finish line.

**Survey** – Mount the working model on a survey table and establish that a path of insertion does exist with at least 3° of taper on all sides of each die. Bridge abutments must have taper in same plane.

**Maryland Bridge** – Please have bridge section removable from adjacent teeth, with palatal area reduced. Contact Dale Dental for suggested prep guide.

### Angulation

Note proper angulation of prep area.



### Model Prep

**Stone Type** – Type IV die stone or similar

**Stone Expansion** – Low

**Block out** – Do not block out

**Margin** – The die must have a ditched margin; use a margin pencil to outline the finish line on the die(s).

**Conditioner/Sealer** – May apply conditioner or sealer

**Die Spacer** – Do not apply die spacer

**Wax Ups** – If specific design is in mind, send wax up and we can duplicate.

**Articulator** – Please include articulation for splint and bridge cases. An articulation is not necessary if the case can be hand set. If articulation is included the model must be removal from it. If case is difficult to articulate, please send bite registration.

**Splints** – If there are splints, the interdental space between the margins must be a minimum of 1 mm.

**Packaging** – Package dies separate from model to prevent damage while shipping; separate dies MUST be numbered.

**Please note:** Including other items such as study models, articulators, matrixes, and/or photographs could help us to create an improved framework design. (Extra charges will apply)

**Do not send:** Impressions

## COMPLETING THE RX

- Write in your patients name and choose a turnaround time
- Indicate tooth numbers
- Select Cercon from the list by checking the corresponding box
- Indicate the final restoration shade. This information will be used when the shaded materials become available from Dentsply Ceramco.
- Select Elite service level (optional)

**ELITE LEVEL SERVICE** – Elite Level Service for Cercon crowns and bridges gives your case priority status throughout the manufacturing process. Included in this are:

**Enhanced Customer Service and Technical Support** – Hallmarked by an even greater degree of customer interaction.

**Priority Sorting Upon Receipt** – Using Elite urgent stickers, this initial presort moves Elite cases into production first on that day.

**Guaranteed Availability** – Guaranteed capacity allocations on all machinery and resources.

**Redundant Technical Checkpoints** – Case attributes are observed frequently at various stages of production.

**Additional outbound insurance** – At no extra cost, this added benefit covers your articulators or other valuable items which may be included in your case.

*Please see the Dale Dental Pricing Sheet for pricing details.*

**RECEIVING YOUR CASE** – When you receive your coping or framework steam clean to make sure it is free of oil and being layering.

**PORCELAIN TRIAL SIZES** – We carry several trial-sized porcelains for you to complete your case with. Contact customer service at 888.GET.DALE (888.438.3253) for more information.

**FINISHING NOTES** – If corrections to the coping or framework are necessary, they should be carried out underirrigation with diamond instruments. Air abrade with aluminum oxide, 100-150µm at 3-3.5 bar of pressure. Follow with a cleaning by steam or ultrasonic bath

**STRIPPING** – Stripping copings and bridge frameworks can be completed with Hydrofluoric acid or Hydrofluoric acid substitute. This will remove applied porcelain and will not damage your frame.

*If you have any questions or for more information please contact our technical service support at 888.GET.DALE (888.438.3253).*

## CLINICAL PREPARATION

*If you need information for your dentist, please contact the system manufacturer or a Dale Dental customer service representative at 888.GET.DALE (888.438.3253).*

## THANK YOU FOR CHOOSING DALE DENTAL

*Since 2000, Dale Dental has worked hard to earn your business and – more importantly – your trust. From the latest products to the best customer service, here are just a few of the ways we continue to be your resource for copings and bridge frameworks.*

**Secure & Non-competitive** – We do not compete for your dentist clientele because we don't work with dentists. We are America's first dental lab exclusively for dental labs.

**Experienced** – Our specially trained technicians maintain an in-depth system knowledge and are committed to finishing cases that meet or exceed exacting manufacturer standards.

**Consistent & Reliable** – With an on-time delivery of over 99% and inbound and outbound email notifications sent daily with delivery tracking hyperlinks for each case, your assured of keeping your customers satisfied.

**Informative & Progressive** – Login to our website to see the status of your cases or provide feedback through on-line quality control cards that instantly display your feedback to the technicians responsible for your cases.

**Certified** – Dale Dental is the first outsourcing dental laboratory in the United States and among the first worldwide to obtain the ISO 9001:2008 certification. We are also a CDL laboratory and employ CDT technicians in many supervisory positions.

**Friendly** – You can always count on our welcoming, professional and well-informed staff to answer questions about the products and services we offer.

*At Dale Dental, we know you have choices. And we're proud you've chosen us.*

