

# DALE DENTAL

## PRODUCT TECH SPECS

### Procera® Zirconia

**MANUFACTURER** – Nobel Biocare, www.nobelbiocare.com, 800.933.8100

**YEAR LAUNCHED** – 1995

**AVAILABLE AT DALE DENTAL SINCE** – 2000

**CERTIFICATIONS** – Dale Dental is a Certified Nobel Biocare Laboratory

**DESCRIPTION** – The Procera CAD/CAM fabrication process involves digitally recording the shape of your die in a computer using a touch-style scanner. The data collected from the scanner is interpreted by specialized software and displayed on a monitor. An experienced technician then examines the file in detail and marks the margins around all 360° of the unit. The final data is then used to mill a new die that has been expanded to accommodate for the shrinkage of the alumina or zirconia sintering process. The alumina is applied and sintered. The external aspect of the coping is then milled to an exact depth resulting in the final thickness of the unit. This process also yields extremely accurate reproductions of your waxed-up custom abutments in titanium, alumina or zirconia.

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

### RESTORATION SELECTOR SMARTCHART

Indications		
<b>Single Unit</b> Yes	<b>Bridges</b> Up to 10 units including cantilever and splints	<b>Laminates</b> Yes – .3 mm thickness
<b>Inlay/Onlay</b> No	<b>Material</b> Zirconia Oxide	<b>Flexural Strength</b> 1200 MPa
<b>Thickness</b> .7 mm standard Zirconia; contour (double scan) also available	<b>Span</b> Up to 10 units	<b>Prep Type</b> All-Ceramic
<b>Coping Color</b> Opacious white	<b>Translucency</b> Low	<b>Cements</b> Contact manufacturer for details
<b>Turnaround</b> Single unit – 2 Day, 3 Day, 4 Day Bridge – 5 Day Splint – 5 Day	<b>Porcelain Type</b> Zirconia compatible – contact manufacturer for specific details and compatibility	<b>Trial Sizes Available at Dale Dental</b> Yes

### LABORATORY PREPARATION

Start with a model made from a class IV, or equivalent die stone. Bulk trim dies to reveal an accurate view of the finish line and mark the finish line. Begin gross reduction using a pear-shaped burr.

Bridges – Add connector information for proper alignment.

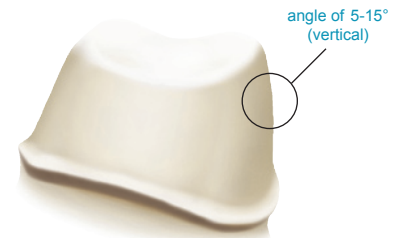
Laminate – The preparation may not extend more than 3 mm on the palatal side and it may not extend more than 1 mm beyond the mesial and distal contact points.

#### Build-ups

Severely prepped teeth should be built up.

#### Angulation

Note proper angulation of prep area.



#### Model Prep

Stone Color – Light color stones such as white or buff work best and yield the most accurate result.

Stone Type – Type IV die stone or similar

Stone Expansion – Low

Block out – Do not block out

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

Conditioner/Sealer – May apply conditioner or sealer. The hardener creates a smooth surface allowing the sapphire tip to run easily across the die during scanning.

Die Spacer – Do not use a die spacer. The Procera process automatically incorporates a 50µm spacer to within 1 mm of the margin. Any die spacer applied by your laboratory will result in additional cement space greater than what has been applied.

Wax Ups – Wax-ups are necessary only for bridge frameworks and contour or double scan copings. Your wax-ups should be fabricated in the same fashion as a metal coping regarding height, contours and porcelain support. Wax a coping for each of the abutment units. It is not necessary to include the pontic in your wax-up. We will match and contour a preformed Zirconia Procera pontic to the edentulous area.

Articulator – An articulation is not necessary if the case can be hand set. If articulation is included the model must be removed 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.

(continued on back)



An ISO 9001:2008 Certified Company.

Dale Dental, Inc. | 1701 North Greenville Avenue Suite 712 Richardson, TX 75081  
214.575.5900 Toll Free: 1.888.GET.DALE (888-438-3253) Fax: 214.575.5901

All Dale Dental copings and bridge frameworks are manufactured in the USA  
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## COMPLETING THE RX

- Write in your patients name and choose a turnaround time
- Indicate tooth numbers
- Select Procera from the list by checking the corresponding box
- Indicate the restoration type
- Select Elite service level (optional)

**ELITE LEVEL SERVICE** – Elite Level Service for Procera 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. Compatible layering porcelains for the shade of your finished restoration. Please note: Procera zirconia restorations require zirconia porcelains.

**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

**Color Variations** – Furnace positioning while sintering can contribute to slight color difference between Procera units. The first opaque bake, or core add-on will even out the color of your Procera copings.

**Rings on Molar Units** – Minute tolerances in the milling process, which ensure optimal fit, sometimes create a slight variation in thickness resulting in a ring-like appearance.

**White Powder Inside of Coping** – A protective film is applied to each die before the zirconia is applied. On occasion, the film becomes pressed into the zirconia leaving the appearance of a white powder, which is easily removed with light sandblasting. Dale Dental does not remove this film since air abrasion is recommended after the completion of the ceramic layering. Make sure you use 100 micron aluminous oxide when bond blasting.

**Adjustments** – If adjustments are necessary, use fine diamonds. Ground copings with light pressure under irrigation. Avoid localized overheating, which can result in micro-cracks.

**Air Abrasion** – All copings should be sandblasted with 100-150µm aluminum oxide at 4 bar (60 psi) and steamed or placed in an ultrasonic unit prior to porcelain application.

## 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).*

## LABORATORY PREPARATION

*(continued)*

**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. (Additional charges will apply)

**Do not send** – Impressions

## 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.*



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