

Noritako



Alight The Street word that Levend
TATANA Zirconia Mile the freedowed that Levend A Light T18 Coller Mile the freedowed that Levend
TATANA Zirconia Mille the freedowed that Levend A Light T18 Coller Mille the freedowed that Levend
TATANA Zirconia WWW. the finance of the formation of the
KATANA Zirconia
UNIANA CALANA ZITCOMA Mile stand Lawrent A Light T18 Collar Instant Lawrent SUBIL: Super Reseatance Most Layrend Instant Lawrent
UNIAIL: Allow Theread and A Light T18 Collar SUMME: Survey Theread and SUMME: SURVEY THE SURVEY T
THE REPORT OF THE PARTY OF THE
A2 T18 Collar A2 T18 Collar
Octobelle side 20 PRO-2009 SCHEMERER Contraction Contraction Contraction State
A2 T18 Collar Includ sele Octower test to the test t

New High Esthetic Potential for Zirconia in Dental Restorations *



Kuraray Noritake Dental Inc.



New High Esthetic Potential for Zirconia Dental Restorations^{*} New KATANA[™] series which feature translucency similar to natural tooth enamel are now available.

KATANA[™] Zirconia UTML•STML zirconia discs which feature multi-layered color with higher translucency levels are now available. You can now expect a more natural look with predictable results and save time, even when fabricating esthetic anterior restoration with KATANA[™] monolithic zirconia materials.



Restorations are full contour zirconia crowns made from KATANA[™] Zirconia UTML^{*} *with external staining



Anterior crown



Laminate veneer

The translucency is 1.4 times more than the conventional zirconia products.

The translucency of zirconia raw materials was increased 1.4 times by our proprietary research and development. Now you can achieve natural life like translucency with KATANA[™] monolithic zirconia materials.



Date sourse: Kuraray Noritake Dental Inc. The numerical value varies according to a condition

You now have a wide range of clinical case applications for monolithic zirconia with the new additional KATANA[™] series.

Selecting the right translucency and mechanical properties, you can fabricate many options, from the esthetic anterior restration to the posterior bridge work.*1



Date sourse: Kuraray Noritake Dental Inc. The numerical value varies according to a condition

*1 UTML, STML, ML : The minimum thickness of zirconia which is necessary in each series is different. Read carefully the instructions prior to using the material.
 *2 HT is recommended for the frame-work if you overlay with layered porcelains.



UTML has the most translucency among the KATANA[™] Zirconia and is recommend as the most suitable for fabricating anterior crowns or laminate veneers. Two different shade types are available, the Standard shade and Enamel shade for your selection.





The restorations are full contour anterior zirconia crowns made

CERABIEN[™] ZR External Stain







- 1. Shade taking
- 2. Applying the Glaze and the External Stain
- 3. Checking the restorations on the model.
- 4. Seating in the mouth



STML has a well-balanced combination of translucency and mechanical properties. This version of KATANA[™] has gradations of translucency as well as color, exhibiting a masking effect in the cervical area. Using this series, you can easily obtain the desired shades to accommodate the variety found in prepared tooth conditions of clinical cases.

Concept of color and translucency





Color and translucency of the layers after sintering (Image of gradation)



The restorations is a full contour posterior zirconia crown made from KATANA[™] Zirconia STML*

*with external staining









- 1. Preparation
- 2. Wax up
- 3. Checking the restoration on the model.
- 4. Seating in the mouth
 - (Left : Buccal view, Right:Occlusal view)

Even higher esthetic restorations are possible.

You can achieve a higher esthetic appearance by layering porcelains and utilizing the internal and/or the external staining technique.



Recommended materials

CERABIEN™ ZR FL Glaze, VC Glaze, External Stain Internal Stain, Luster etc. **CZR PRESS LF** LF External Stain, LF Internal Stain, LF Luster etc.

*Do not mix CERABIEN™ ZR and CZR PRESS LF. Do not use a blend of these porcelain powders.

*Do not use the CZR PRESS (Ingot H, L, EW) with UTML, STML

Restoration fabricated by Otani Dental Clinic Nato Yuasa, RDT

- Layering only on the incisal area of the frame, while maintaining the minimum thickness, with Body and Enamel porcelain etc.
- 2. Application of the Internal Stain
- 3. Layering of Luster porcelain
- 4. Finished restoration.

New materials for Full Contour Zirconia (FCZ) Crowns FL Glaze* and VC Glaze*

>>> FL Glaze

FL Glaze is a colorless and transparent glaze powder containing high fluorescence.

>>> VC Glaze

VC Glaze is a colored glaze powder used to lower the value of Full Contour Zirconia Crowns. It also contains fluorescence. (The fluorescence of VC Glaze is less intense than FL Glaze.)



* Composition of CERABIEN™ ZR External Stain.

Technical Information for Finishing with Glaze



- Smooth the zirconia surface as fine as possible with a silicone diamond point before applying FL &/or VC Glaze.
- Mix glaze powder with IS Liquid and apply to the entire zirconia surface. If characterization is necessary, add CERABIEN[™] ZR External Stain to FL &/or VC Glaze to obtain your ideal colors and shade. Bake in the same schedule with FL &/or VC Glaze.
- Apply and bake again for a 2nd time as necessary.
- * Sandblasting is strongly recommended before applying the glaze powder.
- * If the zirconia surface is designed to contact the opposing tooth, we recommend polishing the surface as smooth as possible.

Recipe example for color characterization of the enamel area









Grayish Enamel → CERABIEN[™] ZR External Stain Gray : VC Glaze : FL Glaze = (1 : 6) : 7 **Bluish Enamel** \rightarrow CERABIEN^M ZR External Stain Blue : VC Glaze : FL Glaze = (1 : 6) : 7

● Mix CERABIEN[™] ZR External Stain and FL &/or VC Glaze with IS Liquid

- Apply VC Glaze evenly over the entire surface and bake
- Apply Glaze Recipe to the Enamel Area and bake

* Please adjust the mixed ratio and application thickness appropriate to desired levels and intensity.

CERABIEN[™] ZR External Stain + CERABIEN[™] ZR FL &/or VC Glaze

Dry-out	Low	Start	Heat	Vacuum	Release	Hold Time	High	Cooling
timel	Temperature	Vacuum	Rate	Level	Vacuum	in the air	Temperature	time
5 minutes	600°C (1112°F)	600°C (1112°F)	1st Bake 65°C (117°F) 2nd Bake *1 50°C (90°F)	1st Bake 96kPa(72cm/Hg) 2nd Bake *1	850°C (1562°F)	1 minute	850°C (1562°F)	4 minutes

*1 2nd bake is not necessary if it is baked to desired level on 1st bake.

Technical Information for Finishing by Polishing

Pearl Surface Z is a diamond paste ideal for polishing the zirconia surface to a final finish on Full Contour Zirconia Crowns. Specially developed for KATANA™ Zirconia, It is the simplest and fastest way to achieve finished Full Contour Zirconia Crowns.









Smooth the zirconia surface as fine as possible with a silicone diamond point before using Pearl Surface Z. Add the proper amount of Pearl Surface Z to the polishing brush and polish the entire crown surface. * Pearl Surface Z can be used for an average of 100 FCZ molar crowns per container (20g).



Printed color can be slightly different from actual color.

Design and Milling

Restorations for Anterior and Posterior Crown, Laminate Veneer, Inlay, and Onlay Design the restoration to maintain the minimum wall thickness* of zirconia as shown. Do not adapt the design to a form that becomes contraindicated.

*Thickness for zirconia only which dose not include porcelain.

Minimum Wall Thickness of Zirconia



Kuraray Noritake Dental Inc. 300 Higashiyama, Miyoshi-cho

Miyoshi, Aichi 470-0293, Japan http://www.kuraraynoritake.com