

KATANA™ Zirconia

UTML *Ultra Translucent Multi Layered*

STML *Super Translucent Multi Layered*

NEW HTML *High Translucent Multi Layered*

90-minute Sintering*
New Shade Lineup of HTML series



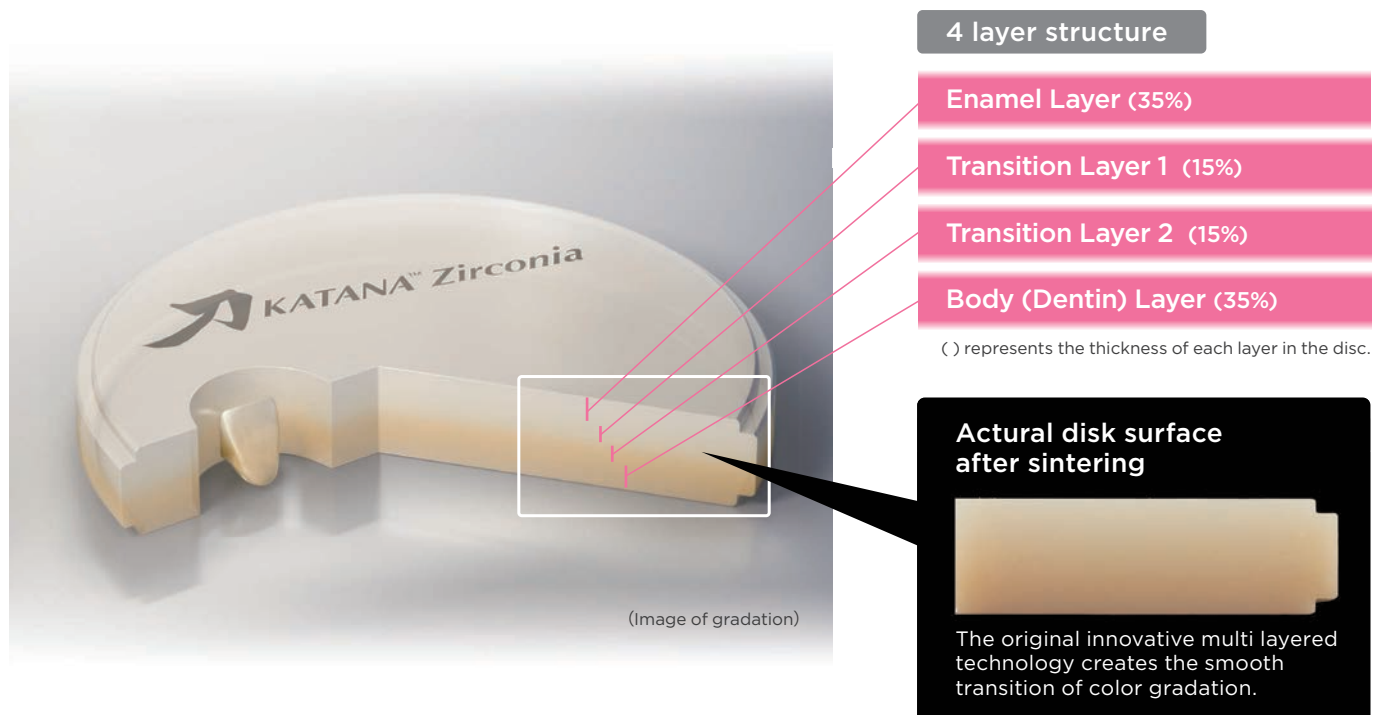


High Esthetic Potential for Zirconia Dental Restorations*

The KATANA™ Zirconia UTML and STML, which feature translucency similar to natural enamel, are now available!

You can achieve a highly esthetic restoration, with predictable results, while saving time (even when fabricating esthetic anterior restorations).

*Comparison with our conventional products.



Monolithic Restorations made with KATANA™ Zirconia UTML*

* with staining



Anterior crown



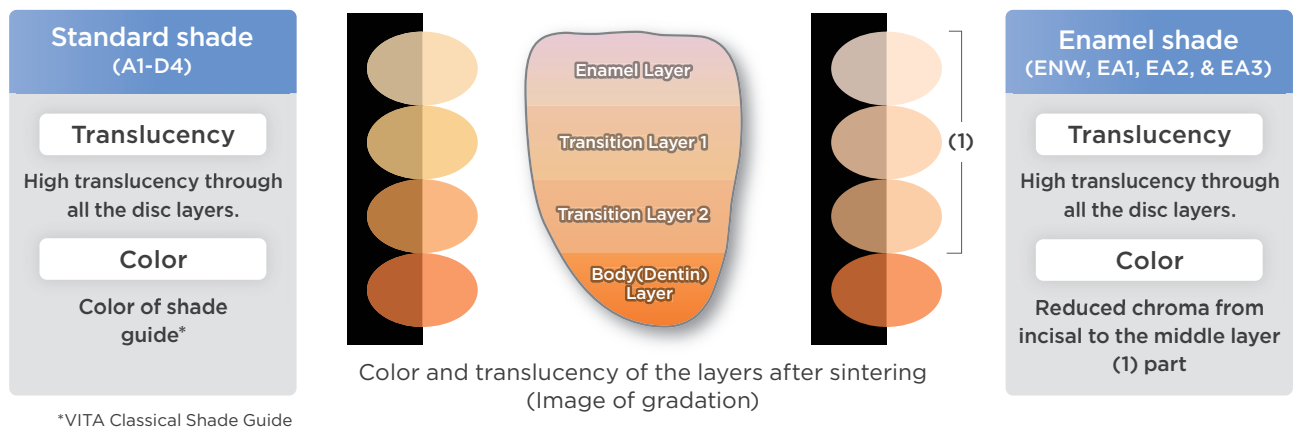
Laminate veneer

Restorations fabricated by Anterior crown : FEAL Dental Laboratory, Yoshiteru Tomita, RDT
Laminate veneer : Cusp Dental Supply Inc., Kazunobu Yamada, RDT

UTML *Ultra Translucent Multi Layered*

UTML has the most translucency among the KATANA™ Zirconia series, and is recommended for fabricating anterior crowns or laminate veneers. Two different shade types are available: Standard shade and Enamel shade.

Concept of Color and Translucency



Example of staining



CERABIEN™ ZR FC Paste Stain



By applying external stains, the translucency is more clearly enhanced. The **Enamel Shade** version has reduced color intensity in one half of the disk from the incisal edge ((1) part), giving you the ability to characterize and express color variations with stains.

Monolithic Anterior Crown made with KATANA™ Zirconia STML*

* with staining



After sintering & morphological correction of zirconia



After staining and glazing



STML *Super Translucent Multi Layered*

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

Concept of Color and Translucency

Standard shade
(NW, A1~A3.5)

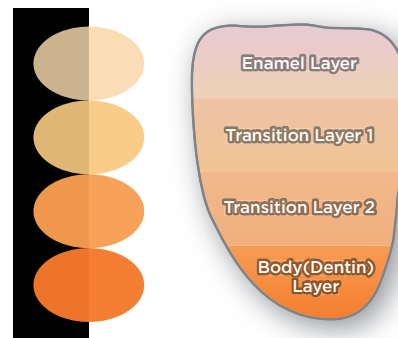
Translucency

Translucency is gradually decreased from the incisal to the cervical region to increase the masking level in the cervical region.

Color

Color of shade guide*

*NW: Noritake Shade Guide, A1-A3.5: VITA Classical Shade Guide



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

Range of masking level

Abutment color examples

UTML		
STML		
HTML		

■ One can select a shade tab that corresponds to the final desired color.

■ Select a shade tab one level brighter than the final color (it will be necessary to complete using stains).

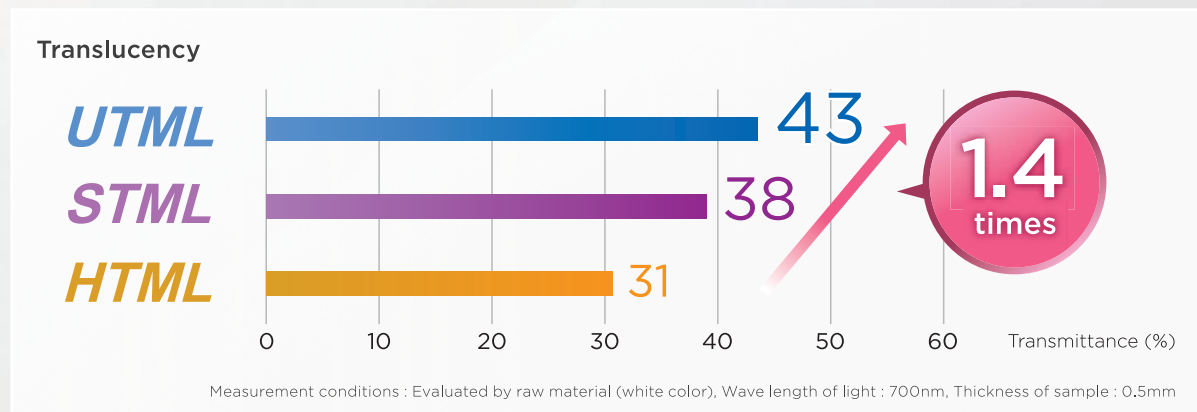


Seating in the mouth



1.4 Times Higher Translucency Than Conventional Zirconia

Our proprietary research and development has increased the translucency of KATANA™ Zirconia UTML by 1.4 times more than conventional zirconia. This enables you to have natural translucency.

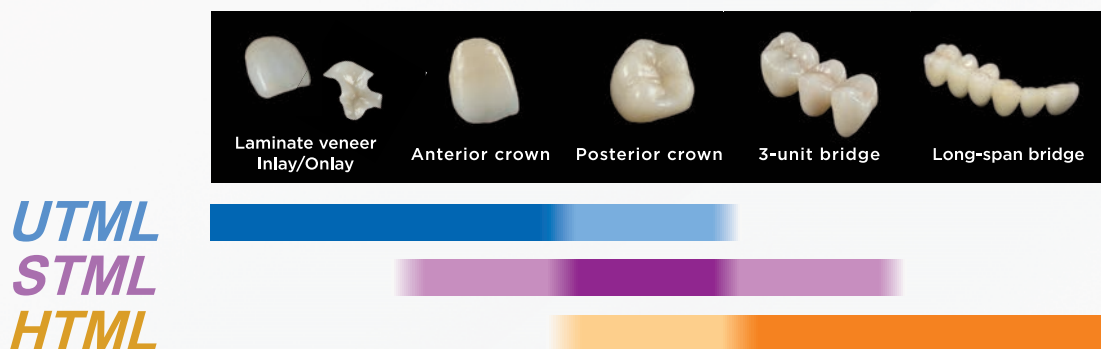


Date source: Kuraray Noritake Dental Inc. The numerical value varies according to a condition.

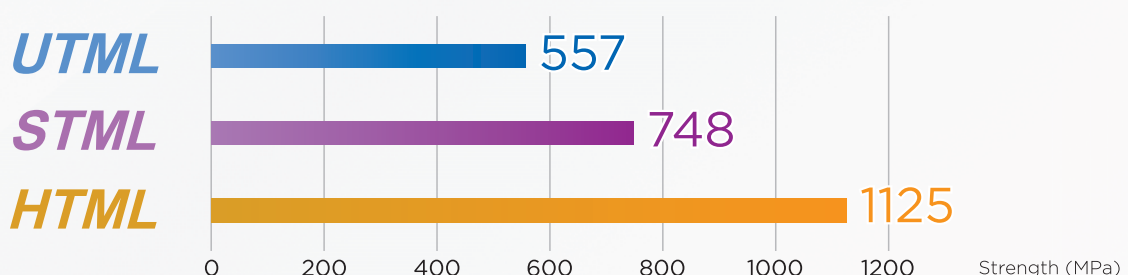
Wide Range of Clinical Applications Using Monolithic Restoration

You can fabricate many restorations, from esthetic anteriors to posterior bridges by selecting the right translucency and mechanical properties*1.

Recommended indications and applications



Mechanical Property (Flexural Strength)



Measurement conditions : Evaluated by base material(white color) according to ISO 6872: 2015, Sample size: 3 x 4 x 40mm,

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

*1 UTML,STML,HTML : The minimum thickness of zirconia necessary for each series is different. Read the Instructions for Use carefully prior to using the material.

90-minute Sintering up to a 3-unit Bridge

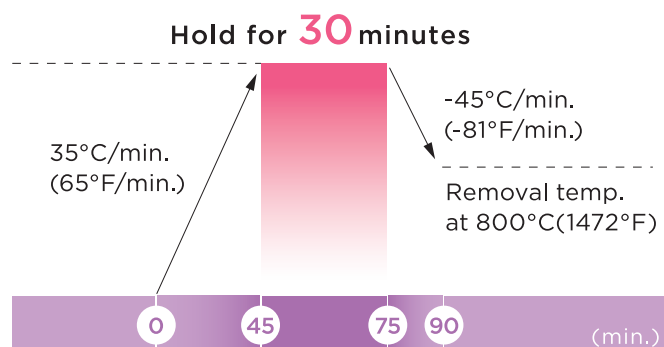
In addition to the usual sintering time (approx. 7 hours), due to our proprietary zirconia technology, KATANA™ Zirconia can be sintered in approx. 90 minutes* without compromising translucency or mechanical strength.

*The material is removed from the furnace at 800°C.

Sintering schedule

STML/UTML : 1560°C(2840°F)

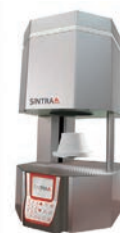
HTML : 1515°C(2759°F)



Fast sintering furnaces

Listed below are examples of furnaces which can reach the desired high temperature:

- Austromat 674i
- inFire HTC speed
- Sintra Plus



Wide Shade Selection

Series	Shade										Size (Diameter/Thickness)
UTML	A1	A2	A3	A3.5	A4	B1	B2	B3	B4		98.5mm/14, 18mm
	C1	C2	C3	C4	D2	D3	D4				
	ENW	EA1	EA2	EA3							
STML	NW	A1	A2	A3	A3.5	A4	B1	B2	B3		98.5mm/14, 18, 22mm
	C1	C2	C3	D2	D3						
HTML	NW	A1	A2	A3	A3.5	A4	B1	B2	B3	NEW Shade	
	C1	C2	C3	D2	D3						



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Website www.kuraraynoritake.com

- Before using this product, be sure to read the Instructions for Use supplied with the product.
- The specifications and appearance of the product are subject to change without notice.
- Printed color can be slightly different from actual color.

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