

# **KATANA™ AVENCIA™ Block**

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**PRECISION, STRENGTH AND POLISHABILITY**

INNOVATION THAT YOU CAN EMBRACE



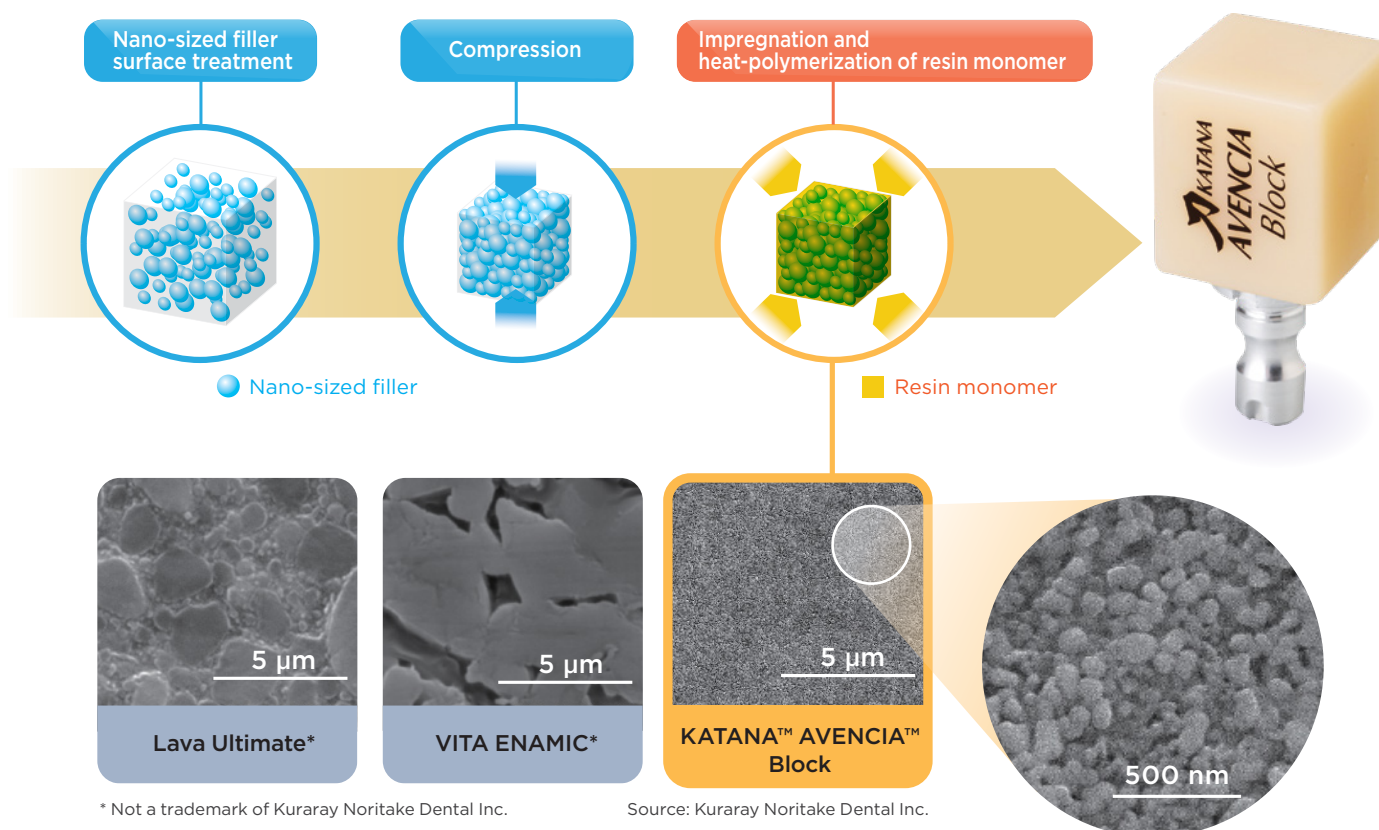
# PRECISION, STRENGTH AND POLISHABILITY

KATANA™ AVENCIA™ Block is a new type of hybrid ceramic developed bringing together the organic/inorganic technology and experience that we have gained through long years developing and working with restorative materials.



## Produced by an Innovative Manufacturing Method

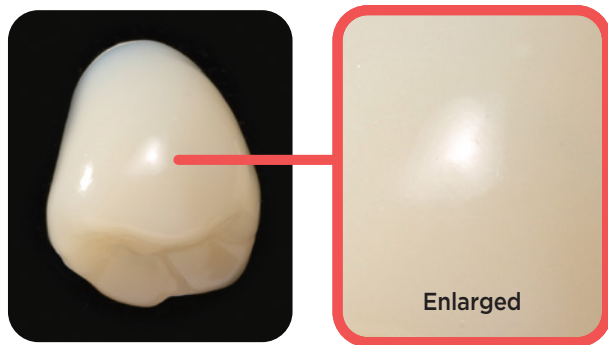
KATANA™ AVENCIA™ Block is produced using our unique manufacturing method. The nano-sized fillers are densely compressed into a block, which is then uniformly impregnated with resin monomer. The resin is then polymerized by heating it. Our new type of hybrid ceramic has great mechanical strength to withstand occlusal pressure, as well as excellent gloss retention.



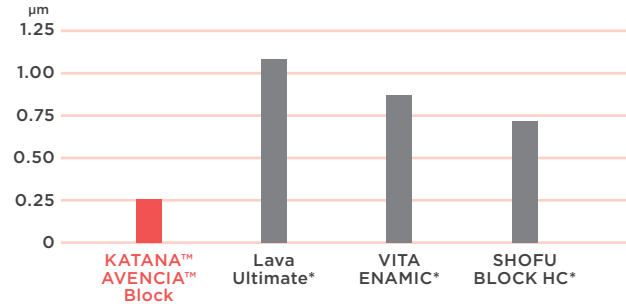
SEM photos show the microstructure of KATANA™ AVENCIA™ Block. In a comparison with other materials, KATANA™ AVENCIA™ Block is filled densely and uniformly with only Nano-sized filler.

## Superior Polishability and Polish Retention

Photos of KATANA™ AVENCIA™ Block after polishing



Surface roughness after 40,000 toothbrush cycles



Test Condition: Tooth brush wear test using tooth paste. Load: 250 g

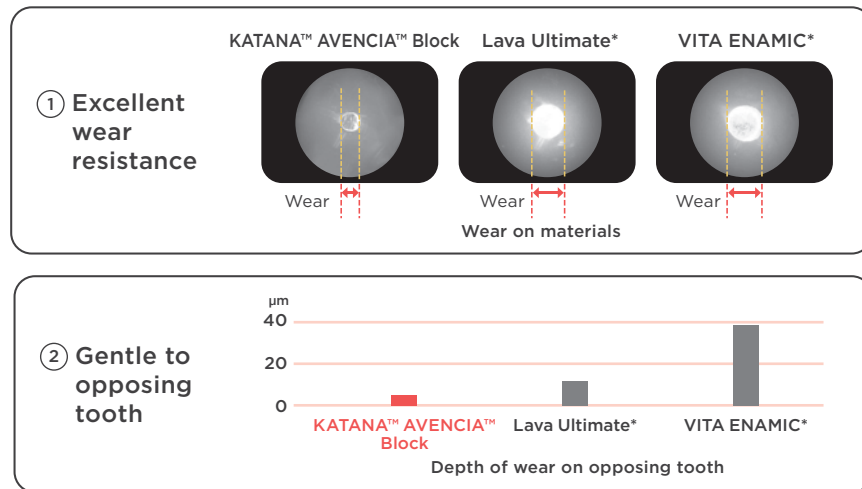
\* Not a trademark of Kuraray Noritake Dental Inc.

Photos of KATANA™ AVENCIA™ Block Before and after 40,000 toothbrush cycles



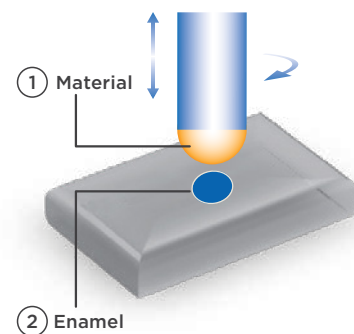
Source: Kuraray Noritake Dental Inc.

## Excellent wear Resistance and Less Wear to Opposing Enamel



\* Not a trademark of Kuraray Noritake Dental Inc.

Wear Test

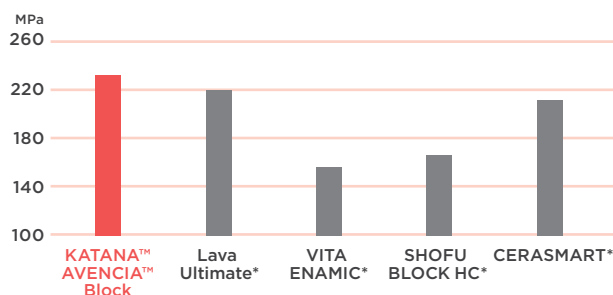


Test Condition:  
Leinfelder wear test at room temperature in water,  
Load: 15.6 kg/cm², 10,000 cycles,  
Antagonist: bovine enamel, polished with #1000 paper  
Material: polished with #3000 paper

Source: Kuraray Noritake Dental Inc.

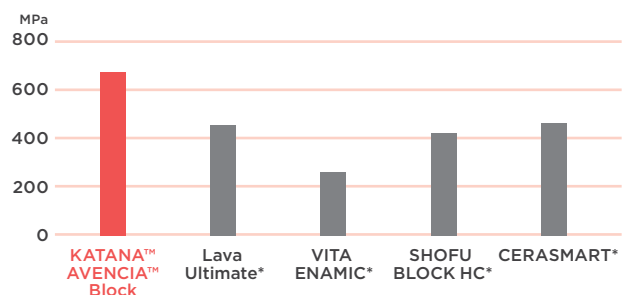
## Superior Mechanical Properties

Flexural Strength



Test Condition: ISO 10477

Compressive Strength



Test Condition: Specimen size 3 3 3 mm, Immersed at room temperature in water for 24 hours

\* Not a trademark of Kuraray Noritake Dental Inc.

Source: Kuraray Noritake Dental Inc.

# Recommended Cementation Procedure

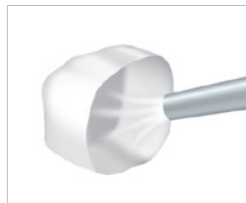


PANAIA™ SA Cement Plus

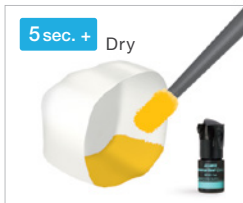


CLEARFIL™ Universal Bond Quick

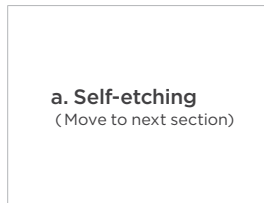
CLEARFIL™ Universal Bond Quick can be used on the tooth structure to enhance the bond strength with PANAIA™ SA Cement Plus.



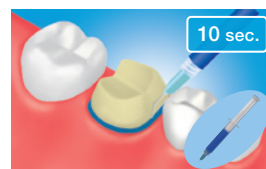
**Blast** with alumina powder (30-50 µm, 0.2-0.4 MPa / 29-58 PSI / 2-4 kgf/cm<sup>2</sup>), then ultrasonic clean and dry.



**Apply BOND\*** then dry by blowing mild air until BOND does not move\*



**Tooth Pretreatment**  
Choose either etching procedure



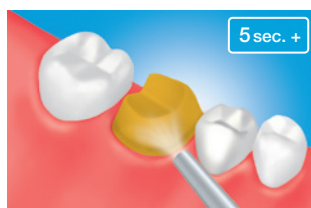
**b. Selective-etching**  
Apply a phosphoric acid to the uncut and/or cut enamel, then rinse and dry.



**c. Total-etching**  
Apply a phosphoric acid to the entire cavity, then rinse and dry.



**Apply BOND with a rubbing motion**



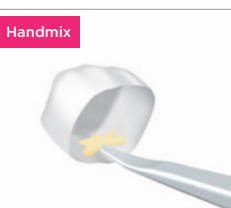
**Dry by blowing mild air until BOND does not move\***  
\* Use a vacuum aspirator to prevent BOND from scattering.



**Dispense an equal amount of Paste A & B. Mix Paste A & B for 10 seconds.**



**Apply the cement to the crown.**



**Light-cure for 1 to 2 seconds or chemical-cure for 2 to 4 minutes, then remove the excess cement.**

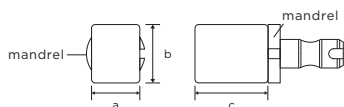


**Maintain isolation for 5 minutes.\***  
\* For a translucent restoration, light-cure.

## Size and Shades

	NAME	a	b	c
Size	12	10 mm	12 mm	15 mm
	14L	14.5 mm	14.5 mm	18 mm

**for CEREC**



## Ordering Information

Code	Product Name
#4101-KA	KATANA™ AVENCIA™ Block A2 12 CEREC
#4102-KA	KATANA™ AVENCIA™ Block A3 12 CEREC
#4103-KA	KATANA™ AVENCIA™ Block A3.5 12 CEREC
#4147-KA	KATANA™ AVENCIA™ Block A2 14L CEREC
#4148-KA	KATANA™ AVENCIA™ Block A3 14L CEREC
#4149-KA	KATANA™ AVENCIA™ Block A3.5 14L CEREC

## YOUR CONTACT

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- 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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