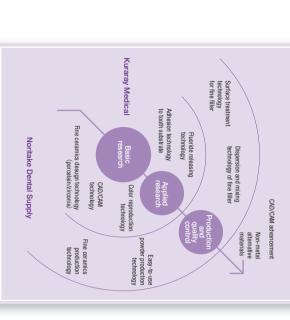
### kuraray



#### Company Profile

seeks to develop new products based on the technologies cultivated thus far by the individual companies, and through it, to contribute to enhancing patients' quality of life, continuing to take on the daily challenge of expanding into new technology domains. Kuraray Medical Inc. and Noritake Dental Supply Co., Ltd. merged in April 2012 with the aim of creating synergy in the areas of development, production, and sales, and strengthening their presence in the company, Kuraray Noritake Dental Inc.,



## ■KATANA Zirconia & CERABIEN ZR (CZR) Porcelain Fused Zirconia (PFZ) Solution

"The patient expressed a lack of confidence in her smile due to esthetic issues with her maxillary central incisors. Final crowns created using Noritake KATANA all-ceramics were cemented.

The result is a beautiful smile with completely natural-looking teeth."



# KATANA Zirconia : Full Contour Zirconia (FCZ) Solution

Easy Milling High Strength

## KATANA Zirconia Material can make Full Contour Zirconia which has high cost performance. You can get strong and stable posterior restoration without layering. CERABIEN ZR (CZR) Internal & External Stain and E Graze will give more esthetic result with minimum intervention.





stoperative Outcome e molar is FCZ made from



Pearl Surface Z
(Polising Materials)
Diamond Paste for Polishing Zirconia Material
\*Polishing Brush should be used with.

Related

Materials



< € 0120

CERABIEN ZR (CZR) Series is a porcelain specifically developed for making all ceramic crowns in use with zirconia frameworks. Crown and Bridge made from with *KATANA Zirconia* can be used in the posterior as well as anterior due to its extremely high

flexural strength and excellent fracture toughness. The combination of CERABIEN ZR (CZR) Series and *KATANA Zirconia* will give you enhanced esthetics and fitness with maximum strength for an overall superior restoration.

Best matching with KATANA Zirconia Materials.

**CERABIEN ZR (CZR) and CZR PRESS** 

Kuraray Noritake Dental Inc.
300 Higashiyama, Miyoshi-cho
Miyoshi, Aichi 470-0293, Japan
http://www.kuraraynoritake.com

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Low Monoclinic Transformation Esthetic High Translucency Pre-colored Technology





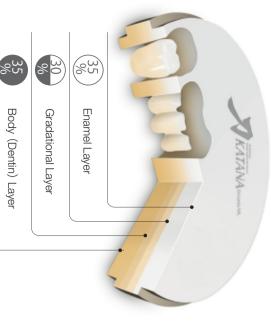
Kuraray Noritake Dental Inc.

# XKATANA KATANA Zirconia (ML & HT)

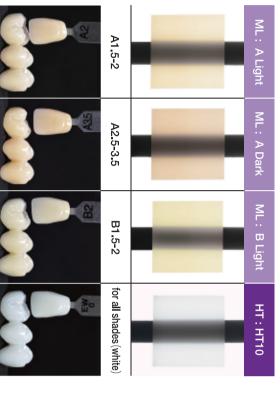
"High Translucency" or "Safety" Which do you choose? You can get both with "KATANA Zirconia" (ML & HT)"

# Collaboration between High Translusency & Pre-colored Technology

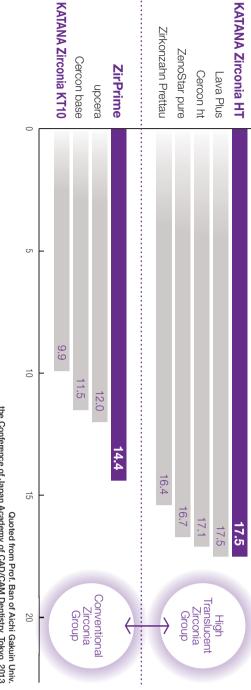








#### Translucency parameter

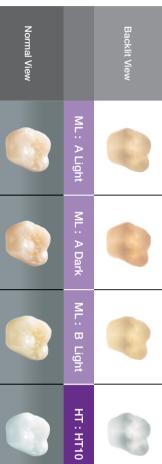


# Quoted from Prof. Ban of Aichi Gakuin Univ. nce of Japan Academy of CAD/CAM Dentistry, Tokyo, 2013

# Esthetic High Translucency & Pre-colored Shade

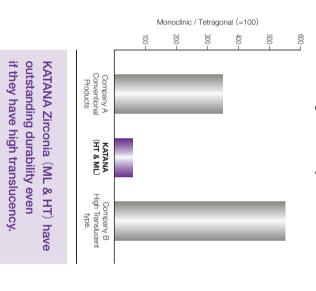


Color Variety



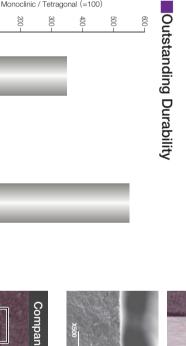
### What is Monoclinic Transformation?

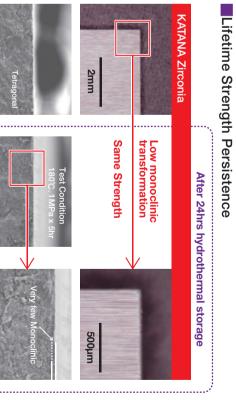
Und of zi gets gets KAT, mon figur



# Low Monoclinic Transformation

noclinic shift and maintain its strength. (See ure of KATANA Zirconia)
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Tetragonal xs <del>oo so<sub>um</sub></del> Surface Condition	2mm	Company A
Test Condition 180°C, 1MPa x 5hr  Crystal  Transformation x500 50µm  Surface Condition	Strength Decreased	High monoclinic transformation
Monoclinic  Monoclinic  10jm  X1,500 10jm  Strength Decreased	500µm	

# Line-up of KATANA Zirconia Material (All Pre-sintered) (€ 0120

	Shade		Thickness				Diameter	Zirconia	
			Collar 26	Collar 22	Collar 18	Collar 14	Straight 10	neter	Zirconia Line-up
	A Dark	A Light	1	•	•	•		98.5mm	KATANA Zirconia (ML)
	HT10 (white)		•	•	•	•	•	98.5mm	KATANA Zirconia (HT)

Physical Property	
	KATANA Ziroonia (ML & HT)
Flexural Strength	1,100MPa
Fracture toughness (K1c)	≥5MPa•m¹/2