

Noritaker

ULTRATHIN LAYERING. FUTUREPROOF YOUR LAB.

Low-fusing porcelains and internal stains for zirconia or lithium disilicate dental restorations



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OUTSTANDING AESTHETICS AT THE FIRST GO

CERABIEN[™] MiLai is a set of porcelains and internal stains specifically designed for the micro-layering technique. The name "MiLai" is derived from the term "micro-layering" and the Japanese word "mirai" (which means future). The innovative product based on synthetic feldspar enables dental technicians to add the final touch to their zirconia or lithium disilicate restorations in a simple and time-saving procedure – for outstanding aesthetics right from the start.





FEATURES & BENEFITS

COMPACT LINE-UP DESIGNED FOR MICRO-LAYERING

for a minimized inventory, streamlined decision-making and a simple, efficient and economic finishing procedure



LOW FIRING TEMPERATURE (740°C / 1,364°F)

for compatibility with a broad range of restorative materials including zirconia and lithium disilicate* and a simplified inventory management



UNIQUE PORCELAIN PROPERTIES

based on synthetic feldspar porcelain for consistent handling and excellent mechanical properties; multiple firing is possible

*The material should have CTE value within 10.2-10.5×10⁻⁶/K (50 - 500 °C)

SIMPLIFYING PROCEDURES

COMPACT LINE-UP DESIGNED FOR MICRO-LAYERING

Modern zirconia or lithium disilicate-based restorative materials have a high aesthetic potential, so that a comprehensive reduction and adding of multiple layers of porcelain is usually no longer required. Instead, a monolithic design or small up to 0.5 mm (vestibular) cut-back is performed, and the dental technician may add a thin layer of porcelain to obtain the effects typical for natural enamel. This procedure is referred to as MICRO-LAYERING – a simplified layering approach leading to beautiful outcomes.



16 PORCELAINS

The line-up of CERABIEN[™] MiLai has been designed to fulfill the needs of dental technicians preferring this simplified, efficient and economic finishing approach. It consists of 16 porcelains and 15 internal stains easy to select and manage. For additional shade effects, a mixing of the porcelains is possible*.

*Mixing with other CERABIEN[™] MiLai porcelain shades is possible. Do not mix with any porcelains from other porcelain series or porcelains from other manufacturers.





PLENTY OF CHOICES

740°C LOW FIRING TEMPERATURE

The firing temperature of CERABIEN[™] MiLai porcelains and internal stains is lower than that of CERABIEN[™] ZR porcelains (740 °C / 1,364 °F versus 930 °C / 1,706 °F). This feature makes CERABIEN[™] MiLai the go-to solution for the finishing of oxide ceramic (e.g. zirconia) and silicate ceramic^{*} (e.g. lithium disilicate) restorations. With fewer lines of porcelain needed, the porcelain inventory is reduced further and fewer decisions need to be taken.

If desired, CERABIEN[™] MiLai porcelains and internal stains may even be applied on top of CERABIEN[™] ZR, as the lower firing temperature does prevent any deformations in the existing porcelain work.



	DRY-OUT TIME	PREDRYING TEMPERATURE		START VACUUM		HEAT RATE		VACUUM LEVEL	RELEASE VACUUM				HOLD TIME IN THE AIR	
	min.	°C	°F	°C	°F	°C/min.	°F/min.	kPa	°C	°F	°C	°F	min.	min.
Wash Bake	5	500	932	600	1,112	45	81	96	740	1,364	740	1,364	1	4
Internal Stain	5	500	932			45	81	0		-	700	1,292	-	4
Liner/Enamel/ Translucent/ Luster/Clear Cervical	7	500	932	600	1,112	45	81	96	740	1,364	740	1,364	1	4
Minor Adjustment	5	500	932	600	1,112	45	81	96	730	1,346	730	1,346	0.5	4
Tissue	5	500	932	600	1,112	45	81	96	720	1,328	720	1,328	1	4
Self Glaze	5	500	932			45	81	0		-	710	1,310	-	4
CERABIEN [™] ZR FC Paste Stain	5	500	932	600	1,112	45	81	96	730	1,346	730	1,346	1	4

The above program is only a guideline. Baking temperature may be varied with the peculiarities of different furnace. Porcelain furnace temperature variations may be significant in the lower ranges. Determine the exact baking schedule by making a preliminary test before baking an actual case restoration.

BAKING SCHEDULE

COLOURS

CERABIEN[™] MiLai line-up and colour combination table

ENAMEL SURFACE



Add high translucency to the enamel surface

ELT₁ Add brightness to your bleached restorations

LTx Add high translucency and opalescence to the enamel surface

LT₁ Add standard translucency and opalescence to the enamel surface

Creamy Enamel Add brightness to the enamel surface

ENAMEL STRUCTURE

the incisal area

INCISAL EFFECT



Aqua Blue 2 Optimize the incisal area of your young patients' restorations

Optimise the incisal area of your

CERVICAL EFFECT



CCV-2 Individualise the cervical area

TISSUE



Tissue 1 Individualize large gingival areas

Tissue 4 Individualize large gingival areas

Tissue 5

Add opacity and adjust the value for the inner part of the gingival tissue

Tissue 6 Individualize large gingival areas

INCISAL DENTIN SURFACE



Add translucency to the dentin structure

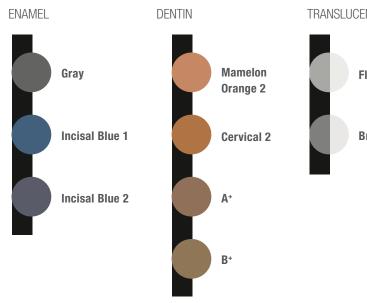
VALUE CONTROL

 \mathbf{E}_2

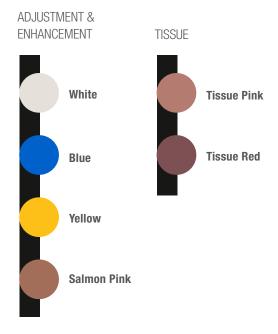


Value Liner 1 Increase the value of your lithium disilicate restorations

Value Liner 2 Increase the value and chroma of your lithium disilicate restorations



INTERNAL STAIN



TRANSLUCENT EFFECT



PREDICTABILITY

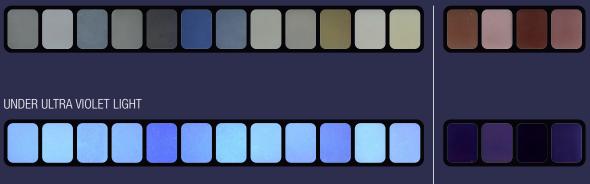
UNIQUE PORCELAIN PROPERTIES

CERABIEN[™] MiLai, like all other porcelains from Kuraray Noritake Dental Inc., is based on synthetic feldspathic porcelain technology developed by Noritake Dental Supply Co., Limited in the late 1980s. Its material structure and particle distribution resemble those of natural teeth. Multiple firing is possible without affecting the material's properties. Because of this quality, dental professionals can rely on persistent handling properties and predictable results every time.

FLUORESCENCE

CERABIEN[™] MiLai porcelain is fluorescent, mimicking the optical properties of a natural tooth. This adds to the vitality and life-like appearance of a restoration. Only Tissue shades do not have the same fluorescent properties, as natural gingiva is not fluorescent.

DAYLIGHT CONDITION

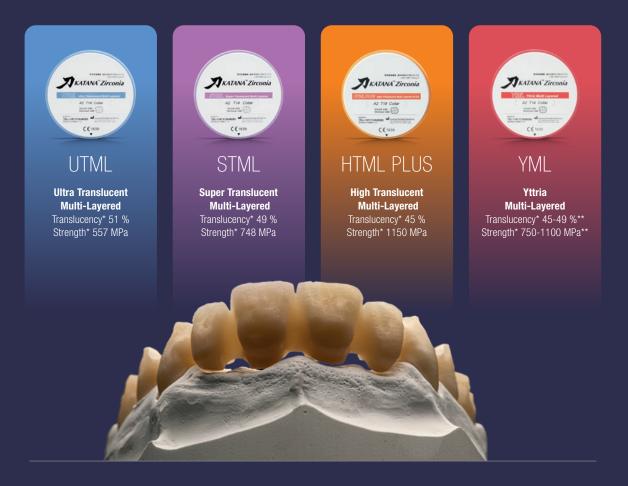


Tissue shades

A SOLID FOUNDATION

KATANA[™] Zirconia MULTI-LAYERED SERIES

Looking for a base material from the same manufacturer? All materials from the KATANA[™] Zirconia Multi-Layered Series complement micro-layering with CERABIEN[™] MiLai porcelains and internal stains offering a strong, aesthetic and enduring base. They are available with colour gradation and uniform translucency and flexural strength of various levels (KATANA[™] Zirconia UTML, STML and HTML PLUS) or with colour, translucency and flexural strength gradation (KATANA[™] Zirconia YML).



*Measurement condition: Evaluated by base material (white colour) 1 According to ISO 6872: 2015, Sample size: 3 x 4 x 40 mm, 2 All light transmittance, illuminant: D65, Thickness of sample: 1.0 mm **Translucency and strength vary depending on layers. Data source: Kuraray Noritake Dental Inc.

PRODUCT ASSORTMENT



CERABIEN™ MiLai PORCELAIN 10g

109-0051EU Tx 109-0061EU ELT. 109-0071EU LTx 109-0081EU LT1 109-0091EU LT Super Gray 109-0101EU LT Royal Blue 109-0111EU Aqua Blue 2 109-0121EU Creamy Enamel 109-0131EU E₂ 109-0141EU CCV-2 109-0151EU Tissue 1 109-0161EU Tissue 4 109-0171EU Tissue 5 109-0181EU Tissue 6 109-0191EU Value Liner 1 109-0201EU Value Liner 2



CERABIEN™ MILai PORCELAIN 50g 109-0212EU Tx 109-0222EU ELT₁

 109-0222EU
 ELT1

 109-0232EU
 LTx

 109-0242EU
 LT1

 109-0252EU
 LT Super Gray

 109-0262EU
 LT Royal Blue

 109-0272EU
 Aqua Blue 2

 109-0282EU
 Creamy Enamel

 109-0292EU
 E2

 109-0302EU
 CCV-2

 109-0312EU
 Tissue 1

 109-032EU
 Tissue 5

 109-0342EU
 Tissue 6

 109-0352EU
 Value Liner 1



CERABIEN™ MiLai INTERNAL STAIN 3g

109-0371EU	White
109-0381EU	Gray
109-0391EU	Incisal Blue 1
109-0401EU	Incisal Blue 2
109-0411EU	Blue
109-0421EU	Yellow
109-0431EU	Mamelon Orange 2
109-0441EU	Cervical 2
109-0451EU	Salmon Pink
109-0461EU	Tissue Pink
109-0471EU	Tissue Red
109-0481EU	A+
109-0491EU	B+
109-0511EU	Fluoro
109-0501EU	Bright

211-2599EU CERABIEN™ MILai INTERNAL STAIN COLOR GUIDE





109-0010EU CERABIEN™ MiLai MICRO-LAYERING KIT



109-0020EU CERABIEN™ MILai INTERNAL STAIN KIT

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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 colour.

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