The cutting edge of natural beauty

KATANA™ ZIRCONIA
MULTI-LAYERED SERIES
THAT’S NATURAL! THE NEW POTENTIAL OF ZIRCONIA

Our KATANA™ Zirconia Series brings naturalness to all your prosthetics. So, no more zirconia that looks too opaque and white? Absolutely! Just make natural veneers and natural full contour prosthetics out of zirconia. Plus large dentin like frameworks.

KATANA™ Zirconia UTML is perfect for anterior prosthetics, such as veneers. Thanks to its natural translucency. And natural color gradient. So, it’s the zirconia with the one of the highest translucency levels in the market.

With KATANA™ Zirconia STML, your full contour prosthetics will look truly natural for the first time. Thanks to its color and natural translucency gradient. This means that you get more opacity in the cervical area. And more translucency in the incisal area. You can now feel confident of achieving first-rate results – regardless of the abutment color.

KATANA™ Zirconia ML is the pioneer of zirconia with a natural color gradient, is made for large dentinal frameworks. Its natural opacity makes it the ideal base to cover it with hand-made ceramics. So with KATANA™ Zirconia UTML, STML and ML you can enjoy the new potential of zirconia.

MILLED ZIRCONIA PRECISION. EVEN FOR VENEERS NOW.

The beauty of milling zirconia is based on its economics, speed and precision. With the KATANA™ Zirconia Series digital dentistry finally moves to the anterior region too. From now on you don’t have to hide your zirconia prosthetics anymore. Or under your veneering ceramics.

To give you one example of its new potential. Just mill and either your veneers. It’s that simple. Apply stain, glaze and you’re done.

NATURAL COLOR GRADIENT LIES WITHIN MULTI-Y-LAYERED DISCS (UTML/STML/ML)

Thickness colors:  dentin layer 35% transition layer 1 15% enamel layer 35% transition layer 2 15%.

1) Source: a comparison test of KATANA Zirconia (H10, ST10, UT10), e.max Press® (LT A1) and Prettau Anterior® (TO) by Kuraray Noritake Dental Inc. * Not a trademark of Kuraray Co., Ltd

This illustration may differ from the real product.
INSPIRED BY ENAMEL – KATANA™ ZIRCONIA UTML
Let natural beauty shine through.

Making natural veneers and other anterior prosthetics from zirconia? Yes, KATANA™ Zirconia UTML is so translucent that light reaches the original tooth color. And brings you the natural result you need. This zirconia has one of the highest translucency levels on the market. PLUS a natural color gradient. So the next time you plan a veneer, think about using KATANA™ Zirconia UTML. You will be thrilled using zirconia in a totally new way.

1 Source: Kuraray Noritake Dental

These veneers are made from KATANA™ Zirconia UTML and stained with CERABIEN™ ZR External Stain

GIVE YOUR BRUSH A BREAK
Just mill enamel thanks to natural translucency.

Usually, your brush is the perfect instrument to create natural esthetics. But for the first time all prosthetics can be milled in a natural way. In one step. Just sinter it. That’s all. You can also choose to characterize your work with your brush. Apply external stains to get an even more natural look.

Source: Kuraray Noritake Dental

NATURAL TRANSLUCENCY KATANA™ Zirconia UTML

<table>
<thead>
<tr>
<th>Enamel</th>
<th>Transition Layer 1</th>
<th>Transition Layer 2</th>
<th>Body Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

The enamels show a lower color intensity in the following layers.

FLEXURAL STRENGTH

<table>
<thead>
<tr>
<th>1</th>
<th>557 MPa</th>
</tr>
</thead>
</table>

557 MPa

Three point bending test according to ISO 6872:2008 - sample size 3 x 4 x 40 mm. White zirconia is used as testing material.

Source: Kuraray Noritake Dental

TRANSLUCENCY

<table>
<thead>
<tr>
<th>1</th>
<th>61%</th>
</tr>
</thead>
</table>

61%

1 *Specifying of light 700 nm, measurement by a 1 cm white-color zirconia plate under various light settings such as fluorescent light and LED light. 
2 Data provided by Kuraray Noritake Dental.
3 Diffusion color intensity of ISO 15693-1:1999 standard shades.

The enamel shades show a lower color intensity in the following layers.
INSPIRED BY TEETH - KATANA™ ZIRCONIA STML
Natural beauty in all senses.

Do full contour zirconia prosthetics look natural? Yes! With KATANA™ Zirconia STML light is transmitted in the incisal area and blocked in the cervical area. Giving you the flexibility to make beautiful full contour prosthetics - regardless of the abutment color. It’s a pioneer of zirconia with a color and natural translucency and color gradient. Use KATANA™ Zirconia STML for your next full contour prosthetics. They’ll be so beautiful, you’ll be longing to make more.

These veneers are made from KATANA™ Zirconia STML and stained with CERABIEN™ ZR External Stain.

GIVE YOUR MILLING MACHINE MORE TO DO
Milling full contour prosthetics thanks to natural color and opacity gradients.

You can choose two strategies for finishing your milled full contour work. Just glaze. Or if you like to make it even more natural, stain the buccal surface with External Stain (CERABIEN™ ZR) or LF External Stain (CZR PRESS LF). Cover it with FL Glaze (CERABIEN™ ZR) to protect the stains and bring your prosthetic to life with natural fluorescence. Making beautiful full contour prosthetics means more business for your milling machine.

NATURAL TRANSLUCENCY GRADIENT KATANA™ Zirconia STML

The translucency gradient moves from the incisal to the cervical area (proper opacity in the cervical area).

Standard shades:
- Enamel
- Transition Layer 1
- Transition Layer 2
- Body Dentin

These shades differ from the classic shade guide.

1 according to VITA® classical Shade Guide (not a trademark of Kuraray)
INSPIRED BY DENTIN • KATANA™ ZIRCONIA ML

Dentin-like frameworks from zirconia? Yes. With KATANA™ Zirconia ML, light reflects its natural opacity. And a veneering ceramic on top makes the most natural result. This zirconia comes with natural color gradient too. So the next time you plan to hide your framework, think about using KATANA™ Zirconia ML. A true dentin-like base.

GIVE YOUR VENEERING CERAMICS A KICK-START

Just mill dentin-like frameworks thanks to a natural opacity gradient. KATANA™ Zirconia ML gives you an excellent base to reproduce any natural color. Such a base deserves an excellent veneering ceramic and some stains. CERABONE™ JR line-ups or CER PRESS LF line-ups are the perfect match.

Afraid of grayness? Not with our luster porcelain! The layer of the LF Luster (CZR PRESS LF) gives your work its natural depth. Individual Characterizations? With the LF Internal Stain (CZR PRESS LF) you paint your dentin-like framework as if on a canvas. Bring your work closer to nature.

<table>
<thead>
<tr>
<th>TRANSLUCENCY</th>
<th>FLEXURAL STRENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>91%</td>
<td>1125 MPa</td>
</tr>
</tbody>
</table>

1 Wavelength of light: 700 nm, sample thickness: 0.5 mm. White zirconia is used as testing material. Source: Kuraray Noritake Dental

2 Three point bending test according to ISO 6872:2008 - sample size 3 x 4 x 40 mm. White zirconia is used as testing material. Source: Kuraray Noritake Dental
MATERIALS
PANAVIA

PANAVIA™ V5 is the revolutionary PANAVIA™ V5 that’s possible. Scientific studies have already shown that cementing single-wing zirconia cantilever bridges with PANAVIA™ V5 has a 94.4% success rate after 10 years.

But PANAVIA™ V5 is not a cement only for your dentist. It’s also the best way to cement your prosthetics in your lab, e.g. implant abutments. From now on you cement all your prosthetics with one predictable procedure. And just relax while cementing even precious veneers or bonding to zirconia.

One cement. All cement indications. One prime procedure.

Pretreatments: Zirconia, Gold Alloy - sandblast; Porcelain - HF; Enamel, Dentin; Source: Kuraray Noritake Dental.

Not indicated for KATANA Zirconia Series.

Kern, M et al. Ten-year survival of anterior all ceramic resin bonded fixed dental prostheses. J Adhes Dent 2011 21 has a 20% success rate after 10 years.

Zirconia - polished with # 1000 SiC Paper.

TECH SPECS COMPATIBLE PRODUCTS
Layering Porcelain: CERABIEN™ CR
CZ PRESS LF
Clear
# 3615-EU
Clear
# 3612-EU
Clear
# 3613-EU
CZR PRESS LF (Internal Stain)
CZR PRESS LF (VC Glaze)
CZR PRESS LF (FL Glaze)

Glaze:  CERABIEN™
CZR PRESS LF (Glaze)

Composition:   ZrO

Thermal expansion coefficient STML:   9.8(±0.2)x10
Thermal expansion coefficient UTML:  9.7(±0.2)x10

Composition:   ZrO

Thermal expansion coefficient ML:   9.9(±0.2)x10

TECH SPECS

2 hours
°C

The actual shades may differ from the product shown.

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Layering Porcelain: CERABIEN™ CR
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ORDER INFO KATANA™ ZIRCONIA DISCS

ORDER INFO PANAVIA™ V5

PANAVIA™ V5 Paste 4 ml / 15 g; 20 Mixing tips
Universal (A2) # 3001-EU; Clear # 3001-EU; Brown (A4) # 3132-EU, White # 3104-EU; Eugenol # 3185-EU

CLEARFILL™ CERAMIC PRIMER PLUS (4 ml), # 3207-EU

INTRADENTISTRY KIT - Universal # 3001-EU - Clear # 3000-EU
PANAVIA™ V5 Tooth Primer (2 ml) CLEARFILL™ CERAMIC PRIMER PLUS (2 ml)
PANAVIA™ V5 Paste (2 ml) glass powder + (2 ml) # 3102-EU; Clear, 10 Mixing tips, 30 Applicator brushes (3 ml-achievers), 1 filling dish (FTM)

MAPPING VS SHEAR BOND STRENGTH TO MULTIPLE MATERIALS

PANAVIA™ V5 VS SHEAR BOND STRENGTH TO MULTIPLE MATERIALS

MPa 10

Accord
Porcelain
Dentin
Gold Alloy
White
Black
Rest

Source: Kuraray Noritake Dental. Data provided by Kuraray Noritake Dental.

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