



## HT (High Translucent) & ML (Multi Layered)- INSTRUCTION FOR USE

### I. Introduction

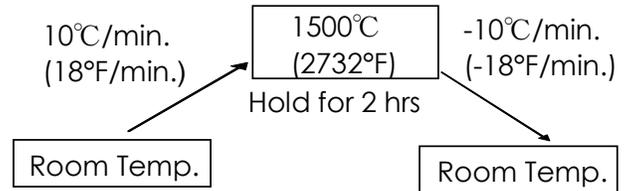
KATANA Zirconia has two shapes available: Block and Disc. This IFU is for KATANA Zirconia HT (High Translucent) & ML (Multi Layered). KATANA Zirconia HT & ML are a pre-sintered zirconia disc 98.5 mm in diameter, which is designed for all milling systems using this generic-type disc. (Please refer to your milling system's technical instructions for correct machine operation.) KATANA Zirconia HT has five available thicknesses: (10mm, 14mm, 18mm, 22mm and 26mm) and has three shade variations: (HT10, HT12 and HT13). KATANA Zirconia ML has three available thicknesses: (14mm, 18mm and 22mm) and has six shade variations: (A Light, A Dark, B Light, C Light, D Light and A White). KATANA Zirconia HT is higher in translucency and KATANA Zirconia ML consists of four gradated shade layers. KATANA Zirconia HT & ML are recommended for use in fabricating FCZ (Full Contour Zirconia) restorations or the frameworks.

### II. Intended Use

KATANA Zirconia HT & ML are used for fabricating the all-ceramic dental frameworks or FCZ crowns and bridges. This disc is designed to provide patients with strong and tough prosthetic dental restorations for anterior and posterior applications.

### III. Sintering Program

Temperature	Programming Rate	Holding Time
Room Temp. — 1500°C(2732°F)	10°C/min.(18°F/min.)	—
1500°C(2732°F)	—	2 hrs
1500°C(2732°F) — Room Temp.	-10°C/min. (-18°F/min.)	—



### IV. Composition

ZrO<sub>2</sub>, Y<sub>2</sub>O<sub>3</sub> etc.

### V. Type and Class(ISO6872:2008)

Type: II / Class:6

### VI. Physical Properties

Coefficient of Thermal Expansion(25-500°C(77-932°F)): 9.9(±0.2)×10<sup>-6</sup>/K

### VII. Directions for Use

- Take the disc from the packaging and confirm that the disc does not have a crack or other damage.
- Place the disc into the milling machine; then begin the milling process following the milling systems technical instructions.
- After milling, remove the frameworks or FCZ crowns and bridges from the disc with a diamond bur etc.
- The cutting waste or dust, which is attached to the frameworks or FCZ crowns and bridges, can be removed with a gentle air stream.
- Put the frameworks or FCZ crowns and bridges into the refractory sagger tray and place them in the sintering furnace.
- Sinter the frameworks or FCZ crowns and bridges according to the sintering schedule shown above. (III. Sintering Program).
- After sintering, adjust the frameworks or FCZ crowns and bridges with a diamond bur as needed.
- Confirm that the frameworks or FCZ crowns and bridges have no cracks.
- FCZ: Hand-polish or glaze the surface of FCZ crowns and bridges in the usual manner.
- Frameworks: Build-up the dental porcelain (CERABIEN ZR or CZR PRESS LF) or press the ingot (CZR PRESS)) on the frameworks\* following the manufactures' technical instructions.

\*The frameworks are restricted to HT.

### VIII. Remarks on Handling

#### Contraindication:

- If the patient is hypersensitive to zirconia or any other components, this product must not be used.

#### Caution:

- If the patient or the dental professional demonstrates a hypersensitivity reaction, such as rash, dermatitis etc., discontinue use of the product and seek medical attention immediately.
- When milling the disc, use an approved dust mask and vacuum with air filter to protect your lungs from inhaling dust.
- When milling the disc, use safety glasses to prevent the dust from getting into your eyes. If the dust gets into your eyes, immediately rinse with copious amounts of water and consult a physician.
- Do not use for any purposes except for dental restoration. This product is for dental application only.
- Do not touch the items heated by the furnace with your bare hands.
- Do not make characterization firings, glazing, or a heat treatment of ML in excess of 900°C(1652°F) after sintering.

#### Caution in conjunction with usage:

- Use the disc immediately after taking out of the package.
- Do not use the disc if there is a crack noticed after removing it from the package.
- Dry milling is recommended. If wet milling is used, the translucency of the disc may be reduced.
- If you find a crack in the frameworks or FCZ crowns and bridges, do not use.
- The above sintering recommendation is only a guideline; some adjustments may be required depending on each individual furnace.

#### Storage:

- Store in a cool and dry place. Keep away from direct sunlight.
- The product should be stored at 10-30°C(50-86°F).
- Do not remove the disc from its packaging during storage.
- The disc is fragile, and requires care when handling.
- The product must be stored in an appropriate place where only dental personnel have access.
- The product must be used by the expiration date indicated on the package.

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Caution: Federal (U.S.A.) law restricts this device to sale by or on the order of a dental professional.

**EC REP Kuraray Europe GmbH** Philipp-Reis-Str. 4, 65795 Hattersheim am Main, Germany

**Kuraray Noritake Dental Inc.**  
300 Higashiyama, Miyoshi-cho, Miyoshi, Aichi, 470-0293 Japan Phone +81-561-32-8953 Fax +81-561-32-8976

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