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Trade name: **Zircox-Yd** CE certification **CE 0398**

Material: ZrO₂ (Tetragonal Polycrystals Zirconium dioxide partially stabilized with Yttrium, Y-TZP)
Product: Presintered Y-TZP blanks for dental application
Product shape: Zircox-Yd blanks have different shapes and dimensions

Medical device: NOT STERILE
NOT FITTING
NOT SUBMITTED TO CLINICAL INVESTIGATION

<u>Chemical composition %</u> (according to ISO 13356:1997):	ZrO ₂ < 96	Y ₂ O ₃ > 4	Al ₂ O ₃ < 1	SiO ₂ < 0,02
<u>Technical data</u>	Density <i>presintered</i>	~ 3.1 g/cm ³	Density <i>dense sintered</i>	~ 6.05 g/cm ³
According standards	Flexural breaking strength <i>presintered</i>	~ 55 Mpa	Flexural breaking strength <i>sintered</i>	~ 900 Mpa
UNI EN ISO 6872:1999	E-modulus <i>dense sintered</i>	~ 210 Gpa	Vickers hardness HV10 <i>sintered</i>	1200
ISO 13356:1997	Open porosity	0 %		

The here below safety information and risks are not related to the product itself but for the alveolar dust which can be released during the working processes of the medical device.

1. Possible hazards

- 1.1 Hazards information: not hazardous medical device.
1.2 Hazards information for people and environment: not applicable.
1.3 Additional information: do not inhale the dust.

2. First aid measures

- 2.1 General information: any specific precautions are requested.
2.2 Inhalation: move to area free from risk of further exposure. Get medical attention.
2.3 Skin contact: wash affected areas with soap and water. Consult a doctor if irritation develops.
2.4 Eye contact: flush with water while holding eyelids open. Consult a doctor if irritation develops.
2.5 Ingestion: if product is ingested, rinse the mouth, drink water and get prompt medical attention.
2.6 Indication for the doctor: unknown.

3. Fire-fighting measures

No special fire-fighting procedures needed. The product is not subject to unusual explosion and is non-flammable.

4. Measures to apply in case of unintentional release

- 4.1 Measures for person: wear protective: light clothing, gloves, goggles and dust mask; any dust generated during handling or processing should be removed by vacuuming.
4.2 Environmental measures: avoid to waste the product into water bearing stratum and superficial water.
4.3 Cleaning measures: remove the product's dust with appropriate local vacuuming.
4.4 Additional information: solid material has not known health hazard.

5. Handling and storing precautions

- 5.1 Handling: follow your working safety instructions;
if dust is generated during processing or use, local exhaust ventilation system should be provided to maintain exposures below your defined limits;
avoid breathing dusts;
to avoid breathing dusts wear appropriate protective mask and clothing; remove the product's dust with appropriate local vacuuming.
5.2 Storage: any specific precaution is needed. Use standard product storing in cool and dry area.
5.3 Used for: dental prostheses.

