



DENTAL
SINTERING
BOWLS
AND
SAGGARS



Jyoti Ceramic's Sintering Bowls for rapid sintering of ceramic components and dental restoratives offer outstanding Thermal Shock Resistance.

The Saggars are comprised of a special proprietary formulation containing aluminium oxide and Silica which produce a thermally superior material: Mullite. This material coupled with high porosity of the bowls means that it is highly resistant to changes in temperatures and can be used for rapid sintering of ceramic articles. Moreover, the Sintering bowls exhibit very low thermal expansion due to large grains in the Ceramic Matrix.

JCIPL Sintering Bowls are compatible with various furnaces and are a perfect combination with Duralox® 997 Sintering beads for worry-free sintering of Zirconia crowns and coping.

AVAILABLE SIZES*

ROUND SHAPE (REGULAR / SLOTS / SLITS)

Ø 95 mm x 30 mm

Ø 100 mm x 30 mm

Ø 110 mm x 30 mm

Ø 120 mm x 35 mm

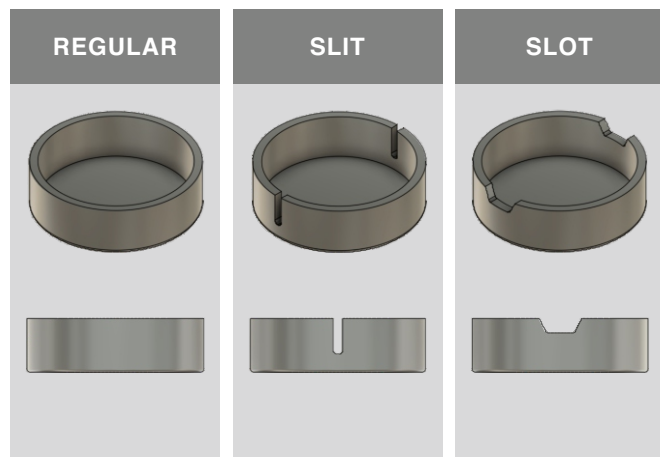
Ø 130 mm x 35 mm

SQUARE SHAPE

65 x 65 x 35 mm

*Special sizes Available on request

TYPES OF ROUND SHAPES



CHEMICAL PROPERTIES

Al ₂ O ₃	: > 70 %
SiO ₂	: > 25 %
Others	: < 2 %

PHYSICAL PROPERTIES

Colour	: Off White
Bulk Density	: 1.8 g/cc
Apparent Density	: 3.1 g/cc
Porosity	: 40%
Water absorption	: 21 %
Flexural strength 3 P.B. (@ Room Temperature)	: 10 Mpa

THERMAL PROPERTIES

Max Temperature	: 1600 °C
Co efficient of Linear Thermal expansion (@ 1000 °C)	: 4.5 x 10 ⁻⁶ / °C
Thermal Shock resistance (Down Shock)	: 1000 °C

ADVANTAGES

- High Thermal shock resistant.
- Good compatibility with Duralox 997 sintering beads.
- Prevent contamination with YSZ dental restoratives.
- High mechanical strength.
- High porosity.



Disclaimer: The information given is based on the results obtained from our R & D Laboratory. However, since the conditions of applications is beyond our control, we cannot stand warranty regarding the result obtained by the use of the product. Liability of Jyoti Ceramic Industries ceases for any damage, injury etc. caused by the mishandling of the products.

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to the nation

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