

Imagine[®]

HIGH TRANSLUCENCY
ZIRCONIA

INSTRUCTIONS FOR USE

Multilayered & Unshaded Zirconia

- Imagine Zirconia is a Y-TZP (Yttria Tetragonal Stabilized Zirconia Polycrystal) material that features a very high translucency.
- It is intended for use in the construction of dental crowns, copings, inlays, and bridges up to 3 units.
- While primarily intended for full contour crowns and bridges, it is also suitable for copings & substructures.
- Imagine meets requirements for Class 4 (Type II) ceramics when tested according to ISO 6872:2015.

INDICATIONS FOR USE

		Imagine™ Zirconia
Anterior	Crown	✓
	Bridge (up to 3 units)	✓

		Imagine™ Zirconia
Posterior	Crown	✓
	Bridge (up to 3 units)	✓
	Inlay	✓
	Onlay	✓

WALL THICKNESS

Posterior	≥0.5 mm
Anterior	≥0.5 mm

CONNECTOR CROSS SECTIONS

Posterior	≥12 mm ²
Anterior	≥12 mm ²

COEFFICIENT OF THERMAL EXPANSION

25-500°C: 10.1×10^{-6}

HANDLING

Prior to Loading Material in Mill Fixture:

- Clean all debris from mill fixture prior to loading material. Dust that is present can cause uneven pressure when loading, resulting in the rim of the disc to crack, chip and/or flake.

While Loading Material in Mill Fixture:

- Place disc into the loosely secured clamps of clean fixture.
- While supporting the disc with your hand, gradually and evenly apply pressure to clamps when loading; DO NOT TIGHTEN clamps until all are secure.
- After all clamps are secure, gradually and evenly tighten them; too much, uneven pressure can cause contact stresses resulting in the rim of the disc to crack.

SINTERING



Imagine Unshaded Zirconia ONLY: Ensure shading liquids are thoroughly dry prior to sintering; add delay start of up to 3.5 hours if desired for in-oven drying time. Final temperature is dependent on furnace design, condition, and calibration.

Sintering Cycles*

Start Temperature	Room Temperature
Heat Rate 1	20°C / min
Intermediate Temp	1000°C
Heat Rate 2	5°C / min
High Temp	1450°C
Hold Time	2 Hours
Cool Rate 1	10°C / min
Cool Temp 1	1000°C
Cool Rate 2	20°C / min
Cool Temp 2	250°C

DEKEMA Austromat® uSiC, baSiC, iSiC*

C0 L0 T020.A620 L5 T015.A1000 T005.C1450
T7200 T010.C1000 T020.A250 C0 L0 T3.

(Add pre-dry if shading liquids are used with unshaded zirconia)

*Pre-programmed cycles can be obtained for direct upload to furnace. Contact Jensen Technical.

POST SINTER FINISHING

As with all Y-TZP materials, grinding on sintered parts should be avoided whenever possible. If post-sinter finishing is necessary:

- Fine diamond tools are recommended using a water-cooled, high speed hand piece.
- Use light pressure to avoid overheating and micro-cracking of the sintered body.
- Polish with diamond impregnated rubber polishers; maintain minimum wall thickness and connector cross sections.

Jensen Technical is available to assist you at 800.528.5531 or you can visit our education website at portal.precisidental.com by scanning the QR code to the right.



CEMENTATION

Conventionally cement following the manufacturer's instructions for use with zirconia restorations.

WARNING

Inhalation of ceramic dust can be hazardous to your health.

- An appropriate vacuum must be used when milling.
- Milling should be conducted in a well-ventilated area.
- Refer to the SDS sheet for other important safety information.

