

METAL FREE PROSTHESES



... for comfort and esthetics

Global Presence



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Dentcare Zirconia.....
Crafting beautiful Smiles





Your trusted dental lab partner having three decades of expertise in the dental field offering the epochal masterpiece- "Dentcare Zirconia"

Having 6 distinct variants. Dentcare, a name synonymous with trust, care, and quality in the dental fraternity is sure to bring everlasting smiles to all its patrons by presenting Dentcare Zirconia with a confluence of top-notch technology and quality workmanship.

WHY DENTCARE ZIRCONIA?

Because your smile matters, and there are other reasons too,

1. Dentcare Zirconia is a true masterpiece from the house of Dentcare, which is world-renowned for its trustworthiness and quality.
2. Our definition of quality is the total commitment to serving you the best crowns and bridges with enhanced mechanical and aesthetic properties and promptness of technical support and service.
3. Dentcare Zirconia has a wide range of translucency with good strength to mimic the complexities that nature has endowed.
4. All indications of Dentcare Zirconia conforms to the demanding standards of ISO 6872:2015 corroborating all the strength requirements.
5. State of the art manufacturing facility at Dentcare meets the terms of six quality certifications Dentcare Zirconia is highly biocompatible and safe to use in humans.
6. Dentcare Zirconia has been tested clinically for ensuring the in –vivo stability of Zirconia crowns and bridges.
7. Dentcare Zirconia is crafted out from CAD/CAM blanks that are made using the best available powders chosen from suppliers of premium Medical grade Zirconia in Japan & Europe.
8. Available in all 16 VITA shades- 7 effect shades and more than 40 vivid, warm and natural shades with customization.



DentCare Zirconia Platinum Plus

This epochal masterpiece, used for the fabrication of Crowns, Bridges, Custom implant abutments, Inlays, Onlays and Primary telescopic prostheses, has been made possible with globally acclaimed ultramodern technology, and accurate know-how raised through three decades of operations. These coupled with superior workmanship of our highly skilled technicians make DentCare Zirconia Platinum Plus the optimum solution for perfect dental prostheses – *Aesthetic and Functional Fulfilment Guaranteed.*

Indications

1. Full contour bridge up to 14 units.
2. Bridge up to 16 units with ceramic layering.
3. Bridge with 4 continuous pontics* for anteriors.
4. Bridge with 2 continuous pontics for posteriors.

Specialities

1. Multi-layer Zirconia with five transition layers to mimic the visible shade gradation and translucency of natural teeth.
2. Best-in-segment translucency of over 45%.
3. Best-in-class bending strength ranging from 1250-1450 MPa.
4. Functionally supreme for high levels of user confidence and satisfaction.
5. Most life-like appearance with uncompromised attention to detail and aesthetics.
6. Perfectly natural and life-like appearance can be achieved even with highly discoloured stump shade when luted with opaque cement.
7. Also available with ceramic layering, done exclusively by our Master Ceramists.
8. Superior quality achieved by a perfect sync of new age technology and master workmanship.
9. Highest level of customisations possible with shade liquids or stains.
10. Total technical support from DentCare Dentists (Specialists).
11. CAD Image for Design verification **FREE**.
12. PMMA temporary restoration **FREE**.

* Bridge with atleast 8 units and 4 prepared stumps



DentCare Zirconia Premium Plus [HT]

The paradigm shifts in dentistry for lifelike restorations that mimic natural tooth structure, based on perceived and actual aesthetic and functional patient demands, have led DentCare to offer DentCare Zirconia Premium Plus— a revolution in metal-free prostheses.

Indications

1. Full contour bridge up to 14 units.
2. Bridge up to 16 units with ceramic layering.
3. Bridge with 4 continuous pontics* for anteriors.
4. Bridge with 2 continuous pontics for posteriors.

Specialities

1. Natural translucency and outstanding aesthetics.
2. Extremely biocompatible.
3. Best-in-segment translucency.
4. Best-in-class strength for functional superiority (bending strength 1150-1250 MPa).
5. Designing and manufacturing done using precision CAD/CAM system for outstanding marginal fit.
6. High flexural strength to ensure long term success of restoration.

*Bridge with atleast 8 units and 4 prepared stumps



DentCare Zirconia Classic [Translucent]

High flexural strength of the blocks makes it a durable option for Crowns and Bridges with up to 16 units. With at least two continuous abutments, bridges with a single unit as cantilever are possible (distal cantilever is not advisable; cantilever should be avoided in the canine and molar regions).

Indications

1. Full contour bridge up to 8 units.
2. Bridges up to 16 units with ceramic layering.
3. Bridges with 4 continuous pontics* for anteriors.
4. Bridges with 2 continuous pontics for posteriors.

Specialities

1. Highly biocompatible.
2. Superior flexural strength of 1100-1300 MPa for long-term success of prostheses.
3. 40% translucency achieved by meticulously followed processes and techniques.
4. Functionally uncompromised with a perfect blend of strength and aesthetics.
5. Assured aesthetics* with ceramic layering.

**Bridge with atleast 8 units and 4 prepared stumps*

** Limited aesthetics can be achieved with full contour restorations.*

CAD/CAM Milling

We ensure predictable, high quality production of your dental restorations, day in and day out. You will definitely feel the difference as perfect adaptation and marginal integrity of the restoration is ensured.



We are a powerhouse of exceptional digital solutions & services with high-end performance and flawless design...





DentCare Zirconia Ultra Plus

DentCare Zirconia Ultra Plus, recognized for its Digital Margin Perfection. The working cast can be made with / without Die Preparation.



Indications

1. Full contour crowns and bridges up to 6 units.
2. Bridges up to 4 continuous pontics for anteriors.
3. Bridges up to 2 continuous pontics for posteriors.

Specialities

1. Full contour crowns and bridges only; No ceramic layering
2. Staining technique is adopted along with cutback-technique to achieve incisal translucency.
3. Flexural strength ranging from 1150-1250 MPa.
4. Available in 16 monochromatic shades from the VITA shade guide at translucency levels of 40%.
5. Designing and manufacturing are done using precision CAD/CAM system for outstanding marginal fit.



DentCare Zirconia BruxCare

BruxCare crowns are monolithic medical grade zirconia restorations with no ceramic layering. They are designed specifically for posterior teeth with more emphasis on strength, making it an ideal restoration for patients with bruxism and those people with limited interocclusal space.

Indications

1. Full contour crowns and bridges up to 4 units (for posterior region only).
2. Up to 2 continuous pontics for posteriors.

Specialities

1. Extra ordinary strength to withstand the toughness created by bruxism.
2. Resistant to chip-off.
3. Flexural strength of 1400-1500 MPa making it a perfect choice of restoration for individuals with bruxism.
4. Low translucency makes it a perfect choice for posterior restorations.
5. Ideal for cases with limited interocclusal space.

DentCare Zirconia Solid Plus

A variant from DentCare which has helped keep us at the forefront of innovation due to its wide acceptance by our National and International Clients. It is our popular variant recognised for its Digital Margin Perfection. We are incessantly passionate to continue our innovation to enhance the aesthetics of millions.



Indications

1. Full contour crowns and bridges up to 3 units, only for posteriors.
2. Up to single pontic for posterior restorations.

Specialities

1. Entry level Zirconia restorations being optimum replacement for PFM (posteriors only).
2. Manufactured using CAD/CAM technology for optimum marginal fit.
3. Monochromatic shades only (16 VITA shades).



IPS e.max CAD

IPS e.max CAD are highly aesthetic CAD/CAM fabricated restorations that offer great flexibility due to its wide range of translucency levels, shades and block sizes. This superlative system combines high aesthetic quality with exceptional user-friendliness. It is an advanced lithium disilicate glass-ceramic (LS2) for CAD/CAM applications.



Benefits

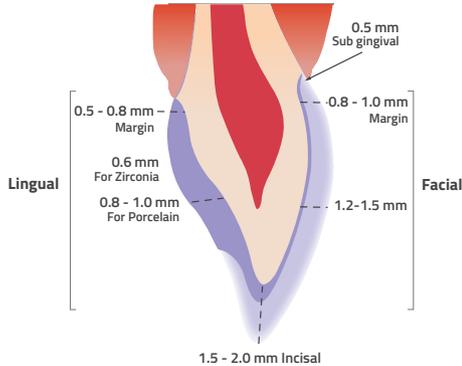
- » Natural tooth-like translucency
- » Leading CAD/CAM material – considerably higher strength when compared to competitive glass and hybrid ceramics
- » Comprehensive indication spectrum
- » Scientifically and clinically proven
- » Tried-and-tested cementation materials are coordinated with lithium disilicate (LS2)

Indications

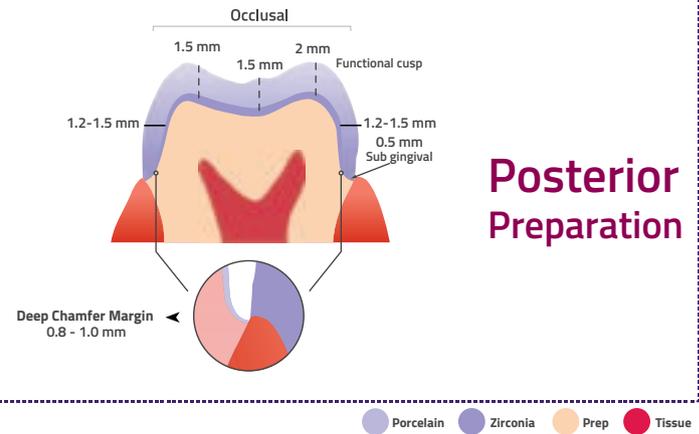
- » Single crowns & bridges with up to 4 units, only with single pontic till 2nd premolar
- » Veneer, Inlay, Onlay and Post & Core

PREPARATION GUIDELINES

Anterior Preparation



Posterior Preparation



Anterior Crowns

- Reduce anatomical shape and observe stipulated minimum thickness.
- Prepare a shoulder with rounded inner edges or a deep chamfer.
- Width of a shoulder / chamfer should be at least 1.0 mm.
- Reduce incisal edge by approximately 1.5 mm.
- Reduce labial or lingual area by approximately 1.2 mm.
- For conventional and / or self-adhesive cementation, preparation must demonstrate retentive surfaces.

Posterior Crowns

- Reduce anatomical shape and observe stipulated minimum thickness.
- Prepare a Circumferential shoulder with rounded inner edges or a deep chamfer.
- Width of a shoulder / chamfer should be at least 1.0 mm.
- Reduce incisal crown third by approximately 1.5 mm.
- Reduce buccal or lingual area by approximately 1.5 mm.
- For conventional and / or self-adhesive cementation, preparation must demonstrate retentive surfaces.

CEMENTATION GUIDELINES

Zirconia restorations can be cemented with self-etch or self-adhesive resin cements. These resin cements can be used where dentin is prominent and where isolation is difficult.

SELF - ETCH	SELF -ADHESIVE
<ul style="list-style-type: none">▪ Preparations with $>14^\circ$ taper▪ < 4 mm crown length▪ < 2 walls remaining (inlays, onlays)	<ul style="list-style-type: none">▪ Preparations with $<14^\circ$ taper▪ > 4 mm crown length▪ > 2 remaining walls (inlays, onlays)

The use of glass ionomer cement is generally not recommended when cementing zirconia restorations. Resin-modified glass ionomers can also be used but they do not achieve bond strengths similar to resin cements and hence, they are not recommended. **For enhanced bonding** of zirconia, zirconia primers can be used before application of the self-adhesive resin cement.

The shade of the luting resin cement used can influence the final esthetic outcome, especially when used to cement a highly translucent zirconia restoration. Decreasing the thickness of the restoration accentuates the challenge of obtaining a perfect shade-match. In general, a more opaque shade of cement ensures better masking of a highly discoloured prepared tooth stump. The application of a Try-in paste (available in the corresponding shades as that of resin cement) aids in the visualisation and verification of the shade compatibility along with an overall esthetic evaluation.

For zirconia restorations over titanium implant abutments, zinc polycarboxylate, glass ionomer or resin cements can be used for definite cementation. Provisional cementation can be done with zinc oxide non-eugenol cement.

For zirconia restorations on zirconia abutments or other all-ceramic abutments, use of a resin cement is recommended.

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