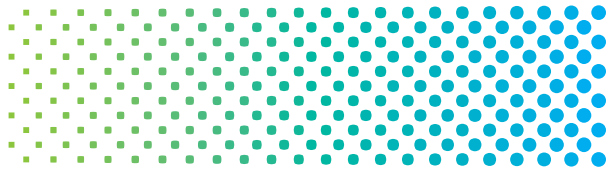


Product Information

- **Product name** : Perfit ZR (HT, ST, UT, TSML, STML)
- **Color** : White and Shade according to VITA shade guide (Classic)

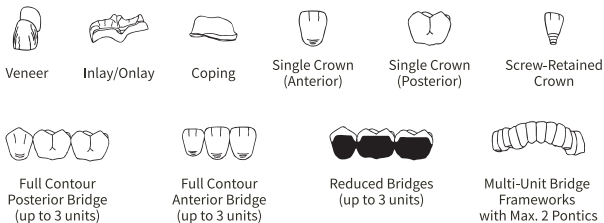
	Perfit ZR™				
	UT	ST	HT	STML	TSML
Type / Class (ISO6872)	2 / 4(b)	2 / 4(b)	2 / 5	2 / 4(b)	2 / 4(b)
Flexural Strength [MPa]	800	1,100	1,300	1,100	800-1,100
Translucency (%)	50	46	42	46	46-50
Material	5Y-TZP	4Y-TZP	3Y-TZP	4Y-TZP	4Y/5Y-TZP

Perfit ZR™ Instruction for use



Indication for Use

Perfit ZR™ UT	
Perfit ZR™ ST	
Perfit ZR™ HT	
Perfit ZR™ STML	
Perfit ZR™ TSML	



General Instruction

- Perfit ZR Dental Zirconia blanks are used for dental restorations using CAD / CAM or manual milling machines.
- All blanks should be processed by Dental Professionals
- Inspect the product for any damages.
- Confirm thickness and shade of disc for the intended use.
- Avoid exposure to foreign particles or liquids.
- Ensure that the disc is placed in the original packaging box under dry conditions.

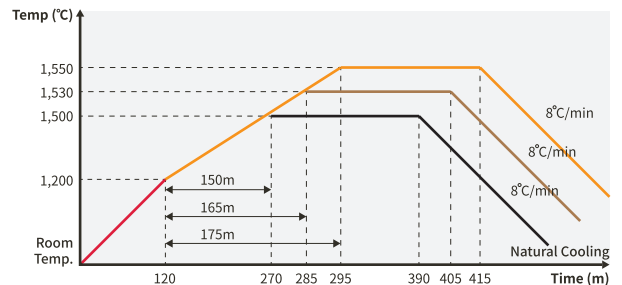
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Prior to Sintering

- Confirm the shrinkage rate or expansion factor provided on the disc.
- Mill the disc into the required framework shape.
- Depending on the size of the restoration, if coloring liquid is infiltrated into milled frameworks, dry them for 10-25 minutes at a temperature of less than 140°C.

Sintering

- Use the following heating schedule to sinter zirconia for optimal translucency and strength.



Step	Starting temp.(°C)	Target temp. (°C)	Heating rate (°C/min)	Holding time(h)
1	Room Temp.	1,200	10	-
2	1,200	Target temp.	2	-
3	Target temp.	Target temp.	-	2
4	Target temp.	Room Temp.	-8	-

- Recommended **Target temp.(°C)** Perfit ZR HT (1,550) / ST, STML, TSML (1,530) / UT (1,500)

Post Sintering (Precautions for Crown Fractures)

- Fully sintered restorations may be adjusted by a wet grinding process using immaculate diamond-coated burs under light pressure to avoid overheating and microcracking of the sintered body.
- It is essential to polish occlusal surfaces with diamond impregnated rubber polishers while maintaining minimum wall thickness and connector cross sections.
- After sintering, the crown's wall thickness should not be less than 0.5mm. For bridges, the cross section of the connectors should not be less than 9 mm².
- To properly cement zirconia restorations, refer to the manufacturer's instructions.

Conditions for Porcelain Powder Build-Up and Firing

- Zirconia discs have a coefficient of thermal expansion of ~10ppm/°C, and only porcelain powders that are compatible should be used.
- The porcelain powder thickness should be kept under 2~3mm to reduce the risk of fracture.
- Please follow the instructions in each manufacturer's manual for the specific firing temperature of porcelain powders.

Intended Use

- Designed by professional dental technicians to create custom all ceramic restorations.
- Use in CAD / CAM milling systems to make dental restorations such as crowns and bridges. It can be used to create anterior and posterior dental restorations.

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Caution

- An understanding of the different application methods, clinical indications, and cautions should precede the use of Perfit ZR Zirconia Blanks.
- Specialized and complex procedures are required for milling processes.
- Creating cases of single to bridges (≤3-unit) is recommended.
- When milling or positioning, avoid excessive loading.
- The quality of the product can be improved by heat treatment at a temperature of up to 1000°C prior to build-up after sintering.
- Additional heating of the zirconia restorations sintered in the furnace might cause cracks due to deterioration of mechanical properties.
- Sintered zirconia restorations may be compromised by notches and sharp edges present on the damaged bottom section of the connectors.
- Use the recommended build-up powder for zirconia by the manufacturer.
- Bridge frameworks should not be supported exclusively by the abutment teeth on either side.
- The Pontic should be supported.

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Contraindications












- Do not use on patients who have an allergic reaction to the material.
- The procedure should not be performed on patients with oral inflammation or disease.

Warning

- The dust produced during the preparation of restorations may be hazardous to your health.
- It is recommended that processing take place in an area with a properly functioning ventilation system.
- This medical device is intended to be used as a disposable. Re-use may cause the prosthesis to break or crack. It may also lead to inflammation or infections.
- Wear protective goggles, gloves, and masks when processing.
- If ceramic powder or liquid comes into direct contact with skin or eyes, thoroughly wash with water and consult a physician.
- Please do not touch the surface with your hands after sintering.
- Do not use unsterilized instruments.
- Do not place the restorations on its marginal edge (crown margin).
- Only for use by Dental Professionals.
- The products are "Rx Only" and are not available over-the-counter or to the general public.

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Label Symbols

	Manufacturer		Use By Date
	Do Not reuse		Catalogue Number
	Date of Manufacture		Non-Sterile
	Batch Code		Keep Away from Sunlight
	Consult Instructions for Use		Keep Dry
	Authorized Representative in the European Community		



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