

NobelProcera™ Crown and Bridge Titanium

FACT SHEET VERSION 1

Overview

- Biocompatible high strength cement-retained solutions on teeth and implants
- A new marginal contact surface design resulting in an improved retention of fit
- Light in weight
- Cost effective
- Radiotranslucent
- Conventional or temporary cementation
- High quality industrial production process using 5-axis milling on a solid monobloc of titanium

Material characteristics

Alloy type:	Biocompatible Titanium according to ASTM F136		
CTE (25-500C):	CTE 10.16		
Melting point:	1640 °C		
Composition:	Titanium-6Aluminum-4Vanadium (Ti6Al4V).		
	Nitrogen ≤ 0.05%, Carbon ≤ 0.08%,		
	Hydrogen \leq 0.015%, Iron \leq 0.30%, Oxygen \leq 0.25%, Aluminum \leq 6.50%,		
	Vanadium ≤ 4.50%. Titanium = balance.		
Tensile strength:	860 MPa		
Yield strength:	795 MPa		
Elongation:	10%		

Veneering

- All commercially available veneering materials designed for use with titanium with a CTE of 10.16 can be used
- A veneering material option is VITAVM[®]9, who recommend sandblasting prior to veneering, 130 micrometer, normal cooling

Additional veneering material recommendations and supporting guidelines are available.

Additional information

NobelProcera Crown and Bridge Titanium solutions are milled from a solid monobloc of alloyed Titanium (Ti6Al4V), which is more applicable for bridges with small connectors. This differs from NobelProcera Implant Bridges which are milled from Grade 2 Titanium.



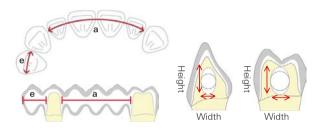


Indications

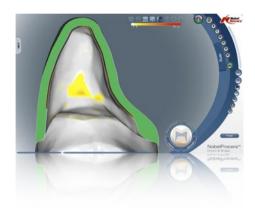
- Crowns and bridges up to 14-units
- Minimum thickness 0.4 mm
- Any position in the mouth
- The connector dimension of a multi-unit framework depends on the distance between the supporting teeth (see table below)
- Design is supported by realtime feedback through warning function in the NobelProcera Software
- A modifiable contact surface area to be implemented for long span bridges and short preparations*

*Planned to be launched Q1 2010

Type – any position	Maximum length a=Arc length [mm] e=Extension length [mm]	Minimum connector and cross section height x width [mm] / area [mm ²]
Free hanging arc	a ≤ 21.0	3.0 × 2.5 / 6.0
Free hanging arc	21.0 < a ≤ 35.0	4.0 × 3.0 / 9.4
Extension	e ≤ 10.0	4.0 × 3.0 / 9.4







Contraindications

- Cases with lengths that exceed the maximum limits
- Bridges must be designed to fit into a block of 80 mm × 80 mm × 30 mm (length × width × height)

NobelProcera - guaranteed and certified quality

NobelProcera products on teeth and implants are guaranteed for five years; the NobelProcera Product Warranty only covers the NobelProcera products and does not include any additional costs. NobelProcera also provides certificates of material authenticity.





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