

technical datasheet

> **Natural Ceramic**
Naturally NACERA



Quality is no standard for us, but an active living consciousness!

Quality management system

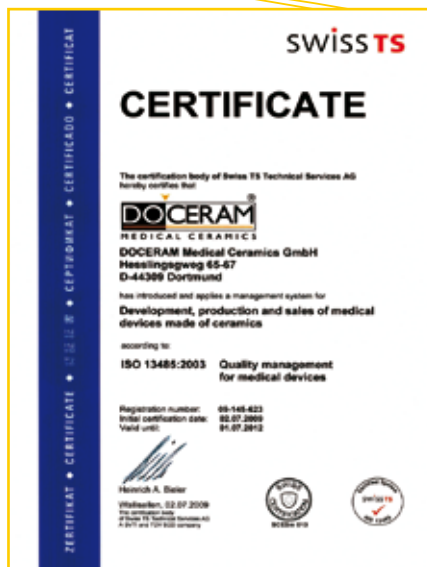
- > certified acc. DIN ISO 9001:2008 and
- > certified acc. DIN ISO 13485:2003
- > Certificate acc. 93/42 EEC Annex II Division 3 for prosthesis
- > Certified acc. CMDCAS ISO 13485:2003 for Canada 510 (k) FDA for Nacera Z types for dental prosthesis



	Unit	Property	Property
Material		ZrO ₂ TZP	ZrO ₂ TZP
Shade range		White	White
Density	g/cm ³	> 6,04	> 6,04
flexural strength (4 P.-)	MPa	1200	1100
Compressive strength	MPa	3000	3000
Modulus of elasticity	GPa	205	205
Impact Resistance	MPa m ^{1/2}	8	8
Vickers Hardness	HV 0,5	1300	1300
Thermal expansion	10 ⁻⁶ K ⁻¹	10	10
Thermal conductivity	W/mK	2	2
Mean linear intercept	μm	< 0,6	< 0,6
Radioactivity	Bq/g	< 10	< 10
Solubility	μg/cm ²	< 50	< 50
Composition		ZrO ₂ + HfO ₂ + Y ₂ O ₃ > 99% Y ₂ O ₃ 4,5% - 6%	ZrO ₂ + HfO ₂ + Y ₂ O ₃ > 99% Y ₂ O ₃ 4,5% - 6%



	Unit	Property	Property
Material		ZrO ₂ TZP	ZrO ₂ TZP
Shade range		Vita Classic™ BI/B2/A2	Vita Classic™ A2/A3/A3,5
Density	g/cm ³	> 6,04	> 6,04
flexural strength (4 P.-)	MPa	1200	1200
Compressive strength	MPa	3000	3000
Modulus of elasticity	GPa	205	205
Impact Resistance	MPa m ^{1/2}	8	8
Vickers Hardness	HV 0,5	1300	1300
Thermal expansion	10 ⁻⁶ K ⁻¹	10	10
Thermal conductivity	W/mK	2	2
Mean linear intercept	μm	< 0,6	< 0,6
Radioactivity	Bq/g	< 10	< 10
Solubility	μg/cm ²	< 50	< 50
Composition		ZrO ₂ + HfO ₂ + Y ₂ O ₃ > 99% Y ₂ O ₃ 4,5% - 6%	ZrO ₂ + HfO ₂ + Y ₂ O ₃ > 99% Y ₂ O ₃ 4,5% - 6%



Nacera[®]

ZT

Property

ZrO₂ TZP

White translucent

> 6,04

1100

3000

205

8

1300

10

2

< 0,6

< 10

<50

ZrO₂ + HfO₂ + Y₂O₃ > 99%
Y₂O₃ 4,5% - 6%

DOCERAM[®]
MEDICAL CERAMICS



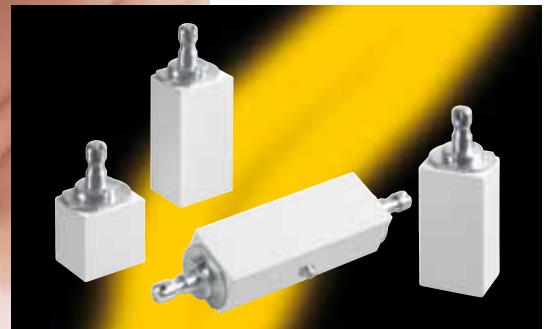
ZirkonZahn[™] compatible

5-er (16mm) / 9-er (16mm) / 16-er (16mm) / 5-er (22mm) / 9-er (22mm) / 16-er (22mm)



Zeno[™] compatible

Ø 98,3mm - 10mm / 12mm / 14mm / 16mm / 18mm / 20mm / 25mm



Cerec[™] compatible

20mm / 40mm / 55mm



Discs with polymer ring

Ø 112mm + Ø 98,3mm - 10mm / 12mm / 14mm / 16mm / 18mm / 20mm / 25mm

> High variety of materials and systems



DOCERAM
Medical Ceramics GmbH

Hesslingsweg 65 – 67
D - 44309 Dortmund

Phone: +49 (0) 23 1/92 56 68-0
Fax: +49 (0) 23 1/92 50 25-60

info@doceram-medical.com
www.doceram-medical.com

Made by nature,
optimized by **DOCERAM**,
created for eternity

“Realise joint visions!”

Certified Company

DIN EN ISO 13485:2003

MOESCHTER GROUP