

otmedical®

Innovative Präzision
Made in Germany

Material Data Sheet
OT medical Products

OT-F¹ Implant System

The Base for the manufacture of high-quality implants and accessories is the compliance with all standard requirements which derive from DIN EN ISO 13485:2003 and concern all divisions of the company. In addition, the conformity with Regulation 93/42/EEC of the Council for Medical Products was confirmed.

This constitutes the permission to use the CE mark on our products.

The following contains all products of OT medical marked with the CE number and mentions the corresponding material. The composition of the materials is indicated in the chapter "Material Specifications".

Article	Material
OT-F ¹ Implants Implant cover screws for OT-F ¹ Prosthetic screws for OT-F ¹	Titanium grade 4 Titanium grade 4 Titanium grade 5
OT-F ¹ Impression copings OT-F ¹ Healing abutment OT-F ¹ Implant analog	Titanium grade 4 Titanium grade 4 Titanium grade 4
Abutments OT-F¹	
BasicLine CeraLine	Titanium grade 4 Base: Titanium grade 5 Abutment: Zirconium oxide
CreativeLine GoldLine	Titanium grade 5 Base: Gold/platinum alloy Ceramicor (Manufacturer: C&M, Switzerland)
HighLine	Funnel: Acrylic (POM) Base: Titanium grade 5 Funnel: Acrylic (PEEK)
Naturalline ProfiLine Adapter ProfiLine Bar connector, acrylic ProfiLine Bar connector, Titanium ProfiLine Bar connector, precious metal	Titanium grade 4 Titanium grade 4 Acrylic (POM) Titanium grade 4 Gold/platinum alloy
Tecline Versaline	Titanium grade 4 Titanium grade 4

OT-F¹ Implant system

Article	Material
Accessories	
O-Ring Housing	Titanium grade 4
O-Ring red	VMQ 70
O-Ring black	NBR 70
Implant analog for Ball Head Abutment Casting template	Titanium grade 4 POM-H
Prosthetic drivers	
Prosthetic Driver for contra-angle	VA 1.4401
Prosthetic Driver short/medium/long	Working part: VA 1.4035 Handle part: VA 1.4305
Driver Octagon	VA 1.4305
Rotational cap	POM [black]
Drills	
Bone Trepine	VA 1.4112
Pilot Drill 1 + 2	VA 1.4112
Interspace Drill	VA 1.4112
Final Drills	VA 1.4112
Cortical Drill	VA 1.4112
Tray	Box: Aluminum 1050A Inlay: Precious metal 304L Silicone stopper
Instruments	
Finger Keys	Titanium grade 5
Insertion Driver „Hex“	Working part: VA 1.4035 Handle part: VA 1.4305
Direction Indicators	Titanium grade 4
Depth Gauge	VA 1.4305
Center Punch	Titanium grade 5

OT-F² and OT-F³ Implant system

Article	Material
OT-F ² Implants	Titanium grade 4
OT-F ³ Implants	Titanium grade 5
Implant Cover Screws for OT-F ² /OT-F ³	Titanium grade 5
Prosthetic screws for OT-F ² /OT-F ³	Titanium grade 5
Healing Abutment	Titanium grade 5
Healing Abutment 4plus6Line	Acrylic (PEEK) [white]
Impression Coping	Titanium grade 5
Transfer Cap	Acrylic (POM) [white] [black]
Implant Analog	Titanium grade 5
Abutments OT-F²/OT-F³	
4plus6Line Final Abutments	Titanium grade 5
4plus6Line Cylinder POM	Acrylic (POM)
CeraLine	Base: Titanium grade 5 Abutment: Zirconium oxide
CreativeLine	Titanium grade 5
GoldLine	Base: Gold/platinum alloy Ceramicor (Manufacturer: C&M, Switzerland) Funnel: Acrylic (POM) [white]
HighLine	Base: Titanium grade 5 Funnel: Acrylic (PEEK) [beige] Acrylic POM [white]
Naturalline	Titanium grade 5
Preforms	Titanium grade 5
ProfiLine Adapter	Titanium grade 5
ProfiLine Bar Connector, Titanium	Titanium grade 5
ProfiLine Bar Connector, Precious metal	Ceramicor (Manufacturer: C&M, Schweiz)
Scanbodies	Titanium grade 5
TecLine	Titanium grade 5
VersaLine	Titanium grade 5
Accessories	
O-Ring Housing	Titanium grade 4
O-Ring red	VMQ 70
O-Ring black	NBR 70
Implant analog for Ball Head Abutment	Titanium grade 4
Casting template	POM-H

OT-F² and OT-F³ Implant system

Article	Material
Prosthetic drivers	
Prosthetic Driver for contra-angle	VA 1.4401
Prosthetic Driver short/medium/long	Working part: VA 1.4034 Handle part: VA 1.4305
Driver Octagon	VA 1.4305
Adapter	VA 1.4305
Rotational cap	POM [white]
Drills	
Bone Trepine	VA 1.4112
Pilot Drill OT-F ³	VA 1.4197
Final Drills OT-F ³	VA 1.4112
Pilot Drills OT-F ²	VA 1.4197
Final Drills OT-F ²	VA 1.4197
Drill stops	Titanium grade 5
Trays	Box: Aluminum 1050A Inlay: Precious metal 304L Silicone stopper
Osteotomy	
Osteotome tip, concave	VA 1.4035
Osteotome Tip/ Trial Fit Gauges	VA 1.4305
Insertion Tips	VA 1.4305
Tools	
Osteotome Hammer	VA 1.4305
Osteotome Handles (straight/bended)	VA 1.4305
Tip Wrench	VA 1.4305
Instruments	
Finger Keys	VA 1.4305
Direction Indicators	Titanium grade 4
Depth Gauge	VA 1.4305
Center Punch	Titanium grade 5
Implant Driver, mechanical	VA 1.4035
Implant Driver, manual	Working part: VA 1.4035 Handle part: VA 1.4305

BICORTIC® Implant system

Article	Material
BICORTIC® Implants	Titanium grade 4
Implant Analogs Impression Copings	Titanium grade 4 Acrylic (POM)
Drills	
Pilot Drills Tray	VA 1.4112 Box: Aluminum 1050A Inlay: Precious metal 304L Silicone stopper
Instruments	
Depth Gauge Insertions Driver for Square and Round Head Driver Octagon Rotational cap Finger Key for Insertion Driver	VA 1.4305 Titanium grade 5 VA 1.4305 POM [black] VA 1.4305
Accessories for Ball Head Implants	
O-Ring Housing O-Ring red O-Ring black	Titanium grade 4 VMQ 70 NBR 70

Material Specifications

Titanium grade 4 (chemical composition)

Element	Max. limit in % (m/m)
Nitrogen	0.05
Carbon	0.10
Hydrogen	0.012 5
Ferrum	0.50
Oxygen	0.40
Titanium	Balance

W-Nr. 1.4305

Element	Max. limit in % (m/m)
Carbon	0.10
Silicium	1.00
Manganese	2.00
Phosphor	0.045
Sulfur	0.15 bis 0.35
Chromium	17.0 bis 19.0
Nickel	8.00 bis 10.0
Other	Cu max. 1.00; N max. 0.11
Ferrum	Balance

X8CrNiS18-9

Titanium grade 5 (chemical composition)

Element	Max. limit in % (m/m)
Aluminium	5.5 bis 6.75
Vanadium	3.5 bis 4.5
Ferrum	max. 0.3
Oxygen	max. 0.2
Carbon	max. 0.08
Nitrogen	max. 0.05
Hydrogen	max. 0.015
Titanium	Balance

W-Nr. 1.4401

Element	Max. limit in % (m/m)
Carbon	0.07
Silicium	1.00
Manganese	2.00
Phosphor	0.045
Sulfur	0.015
Chromium	16.6 bis 18.5
Molybdenum	2.00 bis 2.50
Nickel	10.0 bis 13.0
Other	N max. 0.11

X5CrNiMo17-12-2

W-Nr. 1.4112

Element	Max. limit in % (m/m)
Carbon	0.85 bis 0.95
Silicium	max. 1
Manganese	max. 1
	max. 0.04
Sulfur	max. 0.03
Chromium	17 bis 19
Molybdenum	0.9 bis 1.3
Vanadium	0.07 bis 0.12
Ferrum	Balance

X90CrMoV18

W-Nr. 1.4035

Element	Max. limit in % (m/m)
Carbon	0,43 bis 0,50
Silicium	max. 1,00
Manganese	max. 1,00
Phosphor	max. 0,04
Sulfur	0,15 bis 0,35
Chromium	12,50 bis 14,00
Molybdenum	0,40 bis 0,60
Vanadium	max. 0,50
Ferrum	Balance

X46CrS13

Material Specifications

W-Nr. 1.4197

Element

X20CrNiMoS13-1

Max. limit in % (m/m)

Carbon	0.20 bis 0.26
Silicium	max. 1,00
Manganese	max. 2,00
Phosphor	max. 0,04
Sulfur	0,15 bis 0,27
Chromium	12,50 bis 14,00
Molybdenum	1,10 bis 1,50
Nickel	0,75 bis 1,50
Ferrum	Balance

Aluminium 1050A (chemical composition)

Element

Max. limit in % (m/m)

Silicium	0,25
Ferrum	0,40
Copper	0,05
Manganese	0,05
Magnesium	0,05
Zinc	0,07
Titanium	0,05
Other	0,03
Aluminium	Balance

Gold/platinum alloy [Ceramicor®] (composition)

Gold	60%
Palladium	20%
Platinum	19%
Iridium	1%

Elitor® (composition)

Gold	68.60%
Silver	11.85%
Copper	10.60%
Palladium	3.95%
Zinc	2.50 %
Platinum	2.45%
Other	under 1%

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