

Coating and Surface Treatment Services (Dental)

Service	Brand name	Thickness	Roughness (R _a)	Porosity	Adhesive strength	Fatigue strength	Ca/P ratio	Hardness	Key Features	
Subtractive Surface Treatments	DUOTex®	N/A	1.1 ± 0.5 µm	N/A	N/A	N/A	N/A	N/A	Microstructured, osseo-conductive surface to promote osseointegration	
	CELLTex®*1	N/A	3.0 ± 1.5 µm	N/A	N/A	N/A	N/A	N/A	Macro- and microstructured surface for better osseointegration	
CaP Coatings	BONITex®	5 ± 3 µm	N/A	60 %	≥ 15 MPa	No impact	1.1 ± 0.1	N/A	Enhancement of secondary implant fixation (rapid bone ingrowth)	
	CELLBIOTex®*1	5 ± 3 µm	N/A	60 %	≥ 15 MPa	No impact	1.1 ± 0.1	N/A		
	BONIT®	20 ± 10 µm	N/A	60 %	≥ 15 MPa	No impact	1.1 ± 0.1	N/A		
PVD Coatings	TiN	N/A	0.5-7 µm	≤ 0.05 µm	N/A	HF 1-2 (HRC Test VDI 3824)	No impact	N/A	~2,300 HV	<ul style="list-style-type: none"> Minimizing wear Reduction of ion release Increase in wettability Esthetic appearance
	ZrN	N/A	0.5-6 µm	≤ 0.05 µm	N/A	HF 1-3 (HRC Test VDI 3824)	No impact	N/A	~2,500 HV	
	DLC	N/A	0.5-2.5 µm	≤ 0.05 µm on polished surface	N/A	HF 1-3 (HRC Test VDI 3824)	No impact	N/A	~700 HV	
Titanium Anodizing	Type II	DOTIZE®	1-2 µm	≤ 3 µm (R _z)	N/A	≥ 22 MPa	~10 % increase	N/A	~25 % increase	<ul style="list-style-type: none"> Increase in fatigue strength Reduction of fretting Suppression of bone adhesion
	Type III (Coloring)	N/A	20-200 nm	≤ 0.05 µm on polished surface	N/A	≥ 22 MPa	No impact	N/A	N/A	Improvement of implant and instrumentation identification as well as handling

The values are an indication of our comprehensive offering. The coating specification is defined in accordance with the customer's requirements.

*1 Only offered for pure titanium implants.