

oerlikon
balzers

One crown for life

BALIMED coatings for safe dental applications



Medical



Biocompatible BALIMED coatings reduce implant problems

The shock for anyone with crowns: the crown begins to wobble and loosen slowly from the implant. A new operation with risks must be carried out. Implant parts can break and the whole implant needs to be replaced.

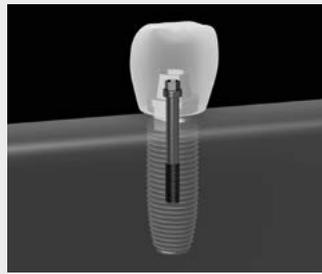
With BALIMED you are on the safe side. Screw torque is reduced and simultaneously the coated implant screws have 30% improved fastening torque.

Your advantages with BALIMED coated abutment screws

- Improved screw adjustability
- Reduction of torque at the application of the screws
- Implant screws can be removed without any risk of breaking or seizure
- Cost savings due to easier and faster exchange of the abutment screws and implants

With BALIMED C, crowns remain firm

The low friction of BALIMED® C coatings reduce the required fastening torque to obtain a defined clamping force or achieve, with a defined fastening torque, a higher clamping force (see result). This ensures stable fixation and eliminates the risk of seizure and screw breakage. Hence, it allows a repositioning of the tooth crown.

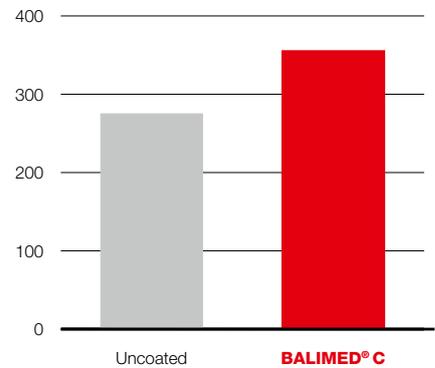


Test conditions

Preload Test

Torque	30 Ncm
Material	Ti6AlV4

Clamping force [N]



We recommend BALIMED coatings for safe implants

	BALIMED A	BALIMED ALTINA	BALIMED FUTURA	BALIMED DLC	BALIMED C	BALIMED CNI	BALIMED ARGENTA
Coating material	TiN	AlTiN	TiAlN	a-C:H	a-C:H-W	CrN	TiNAg
Microhardness (HV 0.05)	> 2,300	3,300	3,300	> 2,000	1,000	1,750	> 2,000
Colour	Gold	Black	Bronze	Black	Grey	Silver-grey	Gold
							

All given data are approximate values and they depend on application, environment and test condition.

There's much more to talk about – please get in touch to discuss what we can do to improve your business

Oerlikon Balzers Coating AG | Balzers Technology & Service Centre | Iramali 18 | 9496 Balzers | Liechtenstein
T +423 388 7500 | www.oerlikon.com/balzers