

BALIMED ARGENTA

Improving patient outcomes
by preventing infections

**ADVANCED
ANTI-
MICROBIAL
COATING**



Medical



BALIMED ARGENTA – Accelerating patient recovery with advanced antimicrobial effectiveness

The surface of the instrument is coated with a layer containing TiN doped with silver. When the surface comes into contact with moisture, small amounts of silver ions (Ag⁺) are released from the coating. These ions are highly reactive and suppress the growth of microorganisms.

Coating properties BALIMED ARGENTA

Coating material	TiN:Ag*
Coating hardness H _{IT} [GPa]	25 – 29
Coefficient of friction (dry)	~ 0.5
Process temperature [°C]	< 350
Coating thickness [µm]	1.5 – 4.0
Coating temperature [°C]	< 600
Coating color	gold

* Multilayer coating: TiN bottom + AgTiN+TiN top (top layer is optional)
All given data are approximate values and depend on application, environment and test conditions.

In addition to its antimicrobial properties, the BALIMED ARGENTA® coating offers excellent antistick performance, and it is highly durable with outstanding wear and scratch resistance.

A variety of applications

- Minimally invasive surgical (MIS) instruments
- Surgical instruments
- Orthopaedic instruments
- Dental instruments
- Trauma implants

Key properties

- Exceptional antimicrobial performance thanks to silver doping within the TiN coating
- Customizable silver content and enhanced silver ion release capabilities
- Outstanding wear and scratch resistance
- High biocompatibility
- Autoclave stability

Tested for biocompatibility

- Cytotoxicity ISO-10993-5
- Irritation ISO-10993-10
- Sensitization ISO-10993-10



Upgrade your medical instruments
with **BALIMED ARGENTA**
Contact us!

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For our global locations,
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www.oerlikon.com/balzers

ISO 9001

for all our worldwide
coating centers

ISO 13485

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