



UMICORE ANTITARNISH 616



Heavy Metal Free Antitarnish Process for Silver

Umicore Antitarnish 616 is a medium based on nanobiotechnology for protecting silver against tarnishing. Special nanopolymers absorb on the silver surface and cross-link to form a protective layer of only a few nanometres thickness. A thin protective layer is applied by a simple immersion process. The invisible layer protects the base material from oxidation, discolouration and mechanical loads without affecting brightness and colour. The coating is chemically resistant, dirt and water repellent and has a long lifetime.

The antitarnish for silver is biologically safe, skin-friendly and hypoallergenic. It produces good haptics and additionally protects from scratches and abrasion. Yet it allows subsequent grinding or polishing. The silver substrate remains recyclable and the coating does not have a value-decreasing effect.

Umicore Antitarnish 616 is primarily suitable for decorative but also for technical applications, it can be used for rack and barrel operation.



Advantages

- · Antitarnish process for silver based on nanotechnology
- $\boldsymbol{\cdot}$ Brightness and colour are retained
- · Biologically safe, skin-friendly and hypoallergenic
- · For decorative and technical applications
- · Simple immersion process
- · Dirt and water repellent
- · Additionally protects from abrasion and scratches
- · Produces good haptics on the surface
- · Subsequent grinding and polishing possible
- · Suitable for rack and barrel

Applications

Silver surfaces

UMICORE ANTITARNISH 616

60 °C



TECHNICAL SPECIFICATIONS

Operating temperature

Electrolyte characteristics	
Electrolyte type	Aqueous immersion process free from heavy metals
pH value	6.5 (5 - 8) at operating temparature

Coating characteristics	
Coating	Uninfluenced
Brightness	Uninfluenced

YOUR CONTACT

Do you have a specific question or would you like a no-obligation quote calculation? Our specialist will be happy to help you with any technical questions you might have.



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