



Version: 16 April 2019



RHODUNA[®] 470 BLACK

RHODIUM ELECTROLYTE



Abrasion-Resistant and Crack-Free Dark Coatings

RHODUNA[®] 470 Black adds a superior final layer to jewellery with a thickness up to 0.3 µm. The layer persuades with good corrosion resistance. The electrolyte is perfectly suited for applications where black ruthenium cannot fulfill the requested abrasion requirements.

The black rhodium electrolyte produces crack-free coatings, even at high layer thickness. The darkness can be adjusted. On the basic substrate, pre-gold plating or a pre-plating with rhodium is recommended.

It is absolutely essential to post-treat black rhodium-plated goods in RHODUNA[®] 470 Black Post Treatment for proper wear resistance and achieving a tarnish free surface.



Advantages

- Perfect electrolyte for dark to black decorative layers
- High abrasion resistance
- Layer thickness up to 0.3 µm possible
- Suitable for rack

Applications

- Jewellery
- Watches
- Spectacle frames
- Writing instruments
- Accessories

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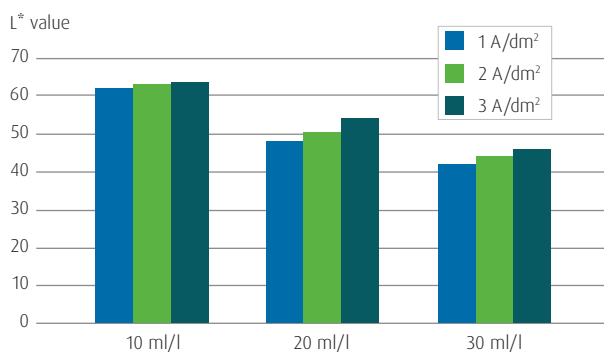


TECHNICAL SPECIFICATIONS

Electrolyte characteristics	
Electrolyte type	Acidic
Metal content	2 (1.8 - 2.2) g/l Rh
pH value	< 1
Operating temperature	35 (30 - 40) °C
Current density range	2 (1 - 3) A/dm ²
Plating speed	0.045 µm/min at 2 A/dm ²
Anode material	Pt-Ti (type PLATINODE® Pt/Ti)

Coating characteristics	
Coating	Rhodium
Colour range of deposit	L* = approx. 63 (Anthracite) to L* = approx. 50 (Black) to L* = approx. 45 (Deep Black)
Abrasiveness	Depending on degree of blackening excellent to fair
Max. coating thickness	Approx. 0.3 µm

Variation of Blackening Degree



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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