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RHODUNA[®] PT ONE

RHODIUM-PLATINUM-ELECTROLYTE



PT ONE - Unique

RHODUNA[®] PT ONE is unique in our product portfolio in many ways. Like its big brother RHODUNA[®] PT, the ONE variant is an economical alternative for pure rhodium. However, with the difference that RHODUNA[®] PT ONE is designed for small scale and the metal content is reduced to one gram per liter. This allows extremely economical rhodium plating starting with the first liter of electrolyte - and with almost constant layer properties. Additional benefits include easy handling thanks to a simple work area and the reduction of the necessary components to an absolute minimum - apart from the initial concentrate, only water is required for electrolyte makeup.

A RHODUNA[®] PT ONE layer consists of 20% rhodium and 80% platinum. Nevertheless, the high-quality alloy cannot be distinguished from that of a pure rhodium electrolyte, even with a trained eye. Due to the high social value of platinum, your product simultaneously gains psychological value and its price acceptance increases significantly - conversely, for you as a producer, a coating with RHODUNA[®] PT ONE is far more attractive in terms of price than one with a pure rhodium electrolyte.



Advantages

- White and bright rhodium-platinum coatings
- Uniform layer thickness
- Crack-free up to 0,3 µm
- Wide current density range
- Abrasion-resistant
- Easy handling
- Less expensive than pure rhodium layers
- Good throwing power and minor porosity
- Good covering speed
- Suitable for rack plating

Applications

- Jewelry
- Watches
- Writing implements
- Spectacle frames
- Bathroom fittings

RHODUNA® PT ONE

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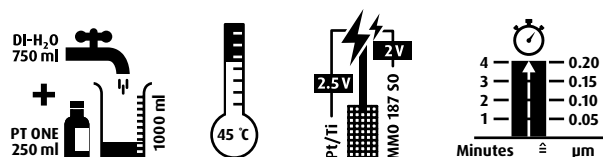
TECHNICAL SPECIFICATIONS

Electrolyte characteristics	
Electrolyte type	Strongly acidic
Metal content	0.3 g/l Rh 0.7 g/l Pt
pH value	< 1
Operating temperature	45 (40 - 50) °C
Current density range	3,0 (2,0 - 5,0) A/dm ² <small>In case the layer is not white enough, just increase the current density (voltage)</small>
Plating speed	approx. 0.05 µm/min approx. 3.5 A/dm ²
Anode material	Pt/Ti MMO 187SO

Coating characteristics	
Coating	Rhodium-platinum
Alloy composition	20 % Rh 80 % Pt
Colour of deposit	White
Brightness	Bright
Hardness of deposit HV 0.015 (Vickers) approx. values	approx. 600 HV
Density of the coating	approx. 18.7 g/cm ³

Easy handling

Using the example of a small-scale makeup (1 liter of electrolyte)



Video Tutorial

In a short video on our product page our technical service shows the application and explains the advantages of RHODUNA® PT ONE



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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