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# RHODUNA<sup>®</sup> PT ONE

## RHODIUM-PLATINUM-ELECTROLYTE



### PT ONE - Unique

RHODUNA<sup>®</sup> PT ONE is unique in our product portfolio in many ways. Like its big brother RHODUNA<sup>®</sup> PT, the ONE variant is an economical alternative for pure rhodium. However, with the difference that RHODUNA<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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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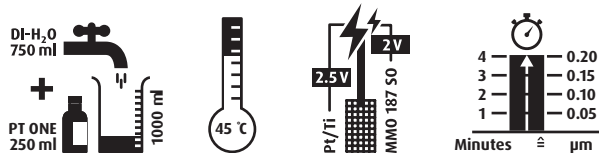
### TECHNICAL SPECIFICATIONS

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 <sup>2</sup>
Plating speed	approx. 0.05 µm/min approx. 3.5 A/dm <sup>2</sup>
Anode material	Pt/Ti MMO 18750

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 <sup>3</sup>

#### 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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