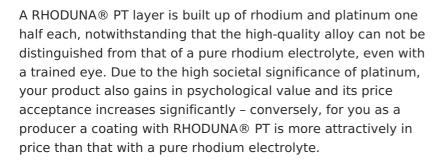




RHODUNA® PT Rhodium-Platinum-Electrolyte

Irresistible – Rhodium with the allure of platinum

Rhodium creates a brilliant white surface on decorative products. Platinum has enjoyed an incredibly stable price for a number of years, and its name is desirable for all buyer groups. Imagine an alloy that combines the benefits of both precious metals.



Alternatively, the alloy composition of rhodium and platinum can be variably adjusted. Compositions of 80 % platinum to 20 % rhodium, and vice versa, are possible - and all this with constant layer properties. Therefore you always have the price advantage on your side.

Further information

- about RHODUNA® PT
- about RHODUNA® Alloy price advantage
- about RHODUNA® Alloy for technical applications
- about RHODUNA® Alloy Black for dark layers

Electrolyte characteristics

Electrolyte type

Strongly acidic

0,6 - 1,5 g/l Rh, 0,6 - 1,5 g/l Pt

pH value	< 1
Operating temperature	45 (40 - 50) °C
Current density range	3,0 (2,0 - 4,0) A/dm²
Plating speed	ca. 0,1 μm/min 3 A/dm²
Anode material	MMO (type PLATINODE® 187 SO)

Coating characteristics

Coating	Rhodium-platinum
Alloy composition	20 - 80 % Rh, 20 - 80 % Pt
Colour of deposit	White
Brightness	Bright
Hardness of deposit	600 HV (at 50 % Rh and 50 % Pt)
Max. coating thickness	up to 0,3 μm
Density of the coating	Approx. 15,7 g/cm³ (at 50 % Rh and 50 % Pt)

Advantages

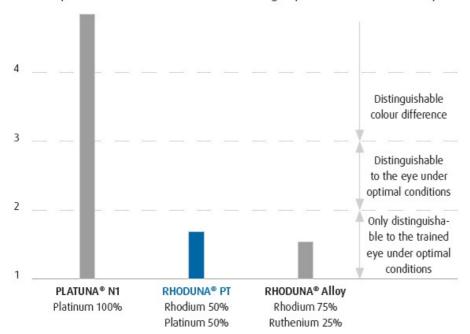
- White and bright rhodium-platinum coatings
- Uniform layer thickness
- Crack-free up to 0,3 μm
- Wide current density range
- Abrasion-resistant
- Less expensive than pure rhodium layers
- Minor porosity and good throw pdf-rowing power
- Good covering speed
- For rack and barrel plating

Applications

- Jewellery
- Watches
- Writing implements
- Eyeglasses
- Fittings

ΔE colour deviation

compared to RHODUNA® Diamond Bright pure rhodium electrolytes



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