

Metal deposits



Rhodega® blend Ru eco

Economic brilliant white deposits

The rhodium-ruthenium process Rhodega® blend Ru eco is an economical acidic electrolyte from which brilliant white deposits with an appearance close to pure Rhodium can be deposited. The layers contain 70-80 % Rhodium and 30-20 % Ruthenium depending on the bath composition.

A typical field of application is for plating on jewellery, optical frames, watches and electric contacts.



Properties and Benefits

- RoHS compliant
- REACH compliant
- Very white layers
- outstanding contact resistance
- high resistance to abrasion, higher than pure rhodium
- good tribological characteristics
- Cheaper than pure rhodium
- $L^* = 90, a = +0,5, b = +3$

Application area

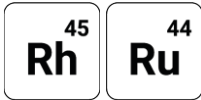
- Jewellery
- Optical frames
- Watches
- Electric contacts

Rhodega blend Ru.eco_E

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Technical Data

Electrolyte properties		
Parameter	Range	Optimum for 75% Rh and 25% Ru
Rhodium	0,8 – 1,2 g/l	1,0 g/l
Ruthenium	0,2 – 0,3 g/l	0,25 g/l
Sulfuric acid	33 – 37 g/l	35 g/l
Wetting agent	0 – 2 ml/l	1 ml/l
Temperature	40 – 50 °C	45 °C
Current density	1 – 10 A/dm ²	
Anode/Cathode-ratio	At least 2:1	2:1
Agitation	4 – 10 cm/s	
Current efficiency at 1A/dm ²	3 mg/Amin	

Dependent on the Rhodium/Ruthenium ratio in the bath the deposited alloy can be adjusted in the Rhodium/Ruthenium content. A Higher Ruthenium content in the bath leads to a higher Ruthenium content in the alloy. The total of Rh and Ru should be close to 1,25 g/l. The whiteness of the deposit will be slightly reduced with increasing Ruthenium content.

Deposit characteristics

Appearance.....	brilliant white
Purity (Rh + Ru)	99,99%
Specific gravity	approx. 12,4 g/cm ³
Hardness	ca. 600 – 900 Hv ₂₀

Products available

3520200	Rhodega® blend Ru Rhodium solution 40 g/l Rh
3520300	Rhodega® blend Ru Ruthenium solution 50 g/l Ru
3520900	Rhodega® blend Ru Wetting agent

FOR ANY FURTHER INFORMATION WE WILL BE PLEASED TO BE AT YOUR DISPOSAL
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