

Metal deposits



# Pallega® blend Ru

## Mirror bright white palladium alloy deposits

Pallega® blend Ru process is a weak alkaline electrolyte from which bright, decorative white levelled alloy layers can be deposited. Pallega blend Ru has been formulated to get crack free and non-porous layers. A typical field of application is the watch, bijou and optical frame production. Pallega® blend Ru enables deposits of thicknesses up to 1,5 microns with mirror bright finish, that is the reason why it can be used as an excellent corrosion protective nickel substitute.



### Properties and benefits

- White colored alloy of Pd-Ru
- Alloy composition Pd-Ru approx. 50/50 – 70/30
- Mirror bright up to 1,5  $\mu$
- RoHS and CLEAR-compliant
- Superior corrosion resistance
- Higher hardness than pure palladium therefore higher abrasion resistance
- Easy thickness measurement because neither Pd nor Ru are components of the base material
- Strongly reduced losses through drag out due to low palladium content
- $L^* = 84,8$ ,  $a = +1$ ,  $b = +4,9$

### Application area

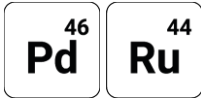
- Jewellery
- Watches
- Optical frames
- Technical applications

Pallega blend Ru LE

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## Technical Data

### Electrolyte parameters

Parameter	Range	Optimum
Specific gravity	11 – 14°Bé/20°C	
pH-Value	7,5 – 8,5	
Palladium	2,0 – 4,0 g/l	
Ruthenium	7,0 – 9,0 g/l	
Temperature	45 °C	
Agitation	Approx. 4 cm/sec	
Anodes	Mixed oxide	
Cathodic current density	0,5 – 2,0 A/dm <sup>2</sup>	1 A/dm <sup>2</sup>
Anodic current density	0,2 – 0,3 A/dm <sup>2</sup>	
Rate of deposition	approx.8 min/μm at 1 A/dm <sup>2</sup>	

### Deposit characteristics

Appearance.....	silver grey
Purity.....	50 % Pd, 50 % Ru up to 70 % Pd, 30% Ru
Specific gravity of the deposit.....	12,1 g/cm <sup>3</sup> for an alloy 50% Pd, 50% Ru

## Products available

3580010 .....	Pallega® blend Ru Make up 9:10
3580030 .....	Pallega® blend Ru Replenisher 1
3580040 .....	Pallega® blend Ru Replenisher 2
3580020 .....	Pallega® blend Ru Ruthenium solution
3474000 .....	Pallega® Palladium solution 100

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