

# Pallega® pure EC

## Pure bright palladium deposits at low metal content

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

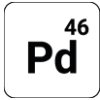


### Properties and benefits

- Bright deposits
- High brightness
- Easy maintenance of the electrolyte
- Good corrosion properties
- $L^* = 86,5$ ,  $a = +1$ ,  $b = +5,5$

### Application area

- Jewellery
- Watches
- Optical frames
- Technical applications



Metal deposits



## Technical Data

### Electrolyte parameters

Parameter	Range
Specific gravity	10 – 12°Bé/20°C
pH-Value	7,0 – 7,5
Palladium	1,0 – 6,0 g/l
Temperature	45 – 55 °C
Agitation	Approx. 4 cm/sec
Anodes	Mixed oxide
Cathodic current density	0,25 – 1,0 A/dm <sup>2</sup>
Anodic current density	0,2 – 0,3 A/dm <sup>2</sup>
Rate of deposition	approx.0,25 µm/min at 1 A/dm <sup>2</sup> or 33 mg/Amin with 5 g/l Pd approx.0,15 µm/min at 1 A/dm <sup>2</sup> or 25 mg/Amin with 2 g/l Pd

### Deposit characteristics

Appearance.....	silver grey
Purity.....	99,9 %
Specific gravity of the deposit.....	11,8 g/cm <sup>3</sup>
Weight for 1 µm.....	approx. 120 mg/dm <sup>2</sup>
Hardness.....	230 – 250 Hv <sub>20</sub>
Contact resistance.....	1,1 m Ohm

## Products available

3466000.....	Pallega® pure EC Make up 7:10
3466100.....	Pallega® pure EC Replenisher
3466500.....	Pallega® pure EC Ready to use incl. 2 g/l Pd
3466800.....	Pallega® pure EC Ready to use incl. 5 g/l Pd
3466300.....	Pallega® pure EC Density correcting salt
3476100.....	Pallega® pure Wetting agent
3475900.....	Pallega® Purification resin
3474000.....	Pallega® Palladium solution 100

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