

Metal deposits



Pallega® blend Sn

Mirror bright white palladium alloy deposits

Pallega® blend Sn process is a weak alkaline electrolyte from which bright, decorative white levelled alloy layers can be deposited. Pallega® blend Sn 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 Sn enables deposits of thicknesses up to 10 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-Sn
- Alloy composition Pd-Sn approx. 80/20 – 70/30
- Mirror bright up to 10 µ
- RoHS and CLEAR-compliant
- Superior corrosion resistance
- higher abrasion resistance than pure palladium
- Strongly reduced losses through drag out due to low palladium content
- $L^* = 83$, $a = +1$, $b = +6,5$

Application area

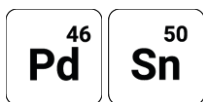
- Jewellery
- Watches
- Optical frames
- Technical applications

Pallega blend SnLE

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Technical Data

Electrolyte parameters

Parameter	Range	Optimum
Specific gravity	9 – 12°Bé/20°C	
pH-Value	8,0 – 8,5	
Palladium	5,0 – 7,0 g/l	6,0 g/l
Tin ²⁺	3,5 – 4,5 g/l	4,0 g/l
Temperature	45 °C	
Agitation	Approx. 4 cm/sec	
Anodes	Mixed oxide	
Cathodic current density	0,5 – 2,0 A/dm ²	1 A/dm ²
Anodic current density	0,2 – 0,3 A/dm ²	
Rate of deposition	approx.3 min/μm at 1 A/dm ²	

Deposit characteristics

Appearance.....silver grey
Specific gravity of the deposit.....10,9 g/cm³ for an alloy 75% Pd, 25% Sn

Products available

3469600	Pallega® blend Sn Ready to use
3469610	Pallega® blend Sn Make up 7:10
3469630	Pallega® blend Sn Replenisher 1
3469640	Pallega® blend Sn Replenisher 2
3469650	Pallega® blend Sn Wetting agent
3469660	Pallega® blend Sn Density correcting salt
3474000	Pallega® Palladium solution 100

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