



PALLUNA® 459 Palladium Electrolyte

The intermediate layer as the perfect diffusion barrier for jewelry

PALLUNA® 459 deposits brilliant, bright and extremely low-pore pure palladium layers. It can be used as pre-palladium, as a diffusion barrier before rhodium plating or gold plating or as a final layer for decorative applications.

The palladium electrolyte is very easy to use. Due to the excellent throw pdf-rowing power, expensive precious metal can be saved, making this electrolyte economically attractive.



Electrolyte characteristics

Electrolyte type	ammoniacal
Metal content	1.5 - 2 g/l
pH value	as pre-palladium 7.0 - 7.2 as final layer 8.5 - 9
Operating temperature	25 - 30 °C
Current density range	approx. 0.5 A/dm ²
Plating speed	up to 0.07 µm/min
Anode material	MMO (type PLATINODE® 167)

Coating characteristics

Coating	Palladium
Purity	99.9 wt.% Pd
Colour of deposit	white
Brightness	Bright, brilliant
Hardness of deposit	230 - 250 HV
Max. coating thickness	0.5 µm

Advantages

- Light-white pure palladium coatings
- Corrosion resistant
- Ductile layers for decorative applications
- Bright, low-pore coatings
- Excellent throw plating power
- Easy handling of the electrolyte
- Crack-free layers up to 0.5 µm possible
- Suitable for rack and barrel

Applications

- Jewelry
- Writing implements
- Watches
- Spectacle frames
- Accessories

Your contact person

The image shows the Umicore Electroplating logo, which consists of the word "umicore" in blue lowercase letters and "Electroplating" in smaller blue uppercase letters below it. To the right of the logo is a portrait of Markus Legeler, a man with short brown hair, smiling, wearing a dark blue patterned shirt.

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