Palladium Bath JE42 V or D

Description:

Palladium Bath JE42 V or D is a weakly alkaline electrolyte for the deposition of bright, decorative, light palladium layers.
The Palladium Bath can be used as a pre-palladium for diffusion barrier, or as a final layer up to 0.5 µm thickness for decorative applications.

Operating data:

Palladium content	2 g/L Pd
JE42 V	**Pre-palladium/Adhesive layer**
pH-value	7,0 (6,8-7,2)
Density	1,080 g/ml (1,075-1,085)
JE42 D	**Final layer**
pH-value	8,5 (8,0-9,0)
Density	1,075 g/ml (1,070-1,080)

Deposition data:

Hardness	230-250 HV
Layer thickness	max. 0,5 µm
Fineness of the palladium layer	99,9 % palladium

Working conditions:

Voltage	1,8 - 2,5 V
Bath temperature	25 - 30 °C
Exposition time	3 - 8 min.
Anode material	mixed oxide
Goods movement	required
Anode- /cathode surface	1 : 1
Deposition rate	2,5 mg/Amin, pH 7,0 15,6 mg/Amin, pH 8,5
Deposition speed	approx. 0,07 µm/min dependig on pH and current density
Current density	approx. 0,5 A/dm^2
Bath filtration	from 10 liters

Form of delivery:

Ready for use 2 g/L Pd

Bath control/Regeneration:

Very important! The bath is very sensitive to cyanide contamination. Any drag-in of cyanide must be avoided. Cyanide contamination is manifested by cracking and streaky, matte coatings. Metallic impurities (Cu, Ni, and Zn) interfere in total from 10 mg/L and lead to dark/streaky and dull coatings.

The palladium content should be kept at the recommended concentration of 1,8 - 2 g/L, depending on the intended use.

Bath inspection should be carried out at regular intervals. For sure we make a bath analysis for you.

To replenish 1 g of palladium, add:

- 10 ml Palladium Solution JE42
- 2,5 ml Palladium Replenisher Type JE42-1
- 2,5 ml Palladium Replenisher Type JE42-2

Recycling:

The used electrolyte contains precious metal, which we gladly recycle for you. The recycling of these solutions can be rentable from 20 liters.

Storage:

Store closed and dark, in suitable and well marked containers. Do not bring in contact with cyanides or cyanide solutions.

Risks/elimination

Therefore before desistance of the liquid solution in the canalization a wastewater treatment should be effected. The specifications of the local water authority should be regarded.

Please consider our safety data sheet!

Jentner Plating Technology
Johann-Staib-Strasse 2, 75179 Pforzheim
Tel. +497231-418094-0 / Fax -77
info@jentner.de, https://jentner.de/jentner-academy/

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