

Rhodium bath JE88 CLEAN

with 1 or 2 g/L Rh

Description:

The JE88 series bright rhodium solution deposits mirror shining, brilliant white, magnificent hard, abrasion resistant rhodium coatings.

The color of JE88 CLEAN may vary in slight nuances as the product is produced exclusively from recycled rhodium. JE88 is preferably used for decorative coatings and jewelry industry. It wins also through its corrosion protection characteristics. Therefore, the rhodium electrolyte JE 88 is adopted in many cases as tarnish protection for silver products.

Operating data:

Rhodium content 1,0 or 2,0 g/L
pH-value < 1

Deposition data:

Hardness 800 – 900 HV
Layer thickness 0,5 µm for 1,0 g/L Rh
1,0 µm for 2,0 g/L Rh
Layer density ca. 12,4 g/cm³

Operating conditions:

Voltage	2 – 3 V
Bath Temperature	20 – 40 °C
Exposition time	2 min. (1 – max. 10 min)
Anode material	platinized titanium or mixed oxid
Goods movement	recommended
Anode-/ cathode surface	1:1
Deposition rate	6 – 8 mg/Amin
Current density	0,5 – 2,0 A/dm ²
Bath filtration	from 10 liters

Form of delivery:

Ready for use 1 and 2 g/L Rh
Concentrate form 1 and 2 g/100ml Rh for 1 liter bath

Bath control/Regeneration:

Regeneration should be made at the latest after 20% of the Rhodium content is worked out. For 1 g of Rhodium 50 ml of Rhodium Replenisher JE88 must be added.

For control of the deposition weight, we recommend an ampère minute counter. Especially for bigger baths control should take place in regular intervals. Gladly we researcher a bath analysis for you.

After a longer period of use, activated carbon cleaning is recommended.

Subsequently, 20 ml/L Additive for Rhodium Bath JE88 must be added.

Recommended pre-treatment:

After electrolytic degreasing, the product should be rinsed and then immersed in a 5% sulfuric acid solution.

This prevents carryover of the degreasing electrolyte into the rhodium bath.

Recycling:

The used solution contains precious metal, which we like to recycle for you. Recycling of these solutions can be profitable from 1 liter.

Storage:

Store closed and dark, in suitable and well marked containers. Do not bring in contact with cyanides or cyanide solutions because the bath contains sulfuric acid.

Risks/elimination:

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!

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Management Service

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