Procons2

PLATING DIVISION

Technical data sheet and product guideline

RH2W

White rhodium for bath plating 2 g/l ready-to-use



Color coordinates



Your jewelry technology provider

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0.6	
2.1	
2.2	

Product form Metal concentration 2g/l (Rh) Form Liquid Material color Orange Storage time 2 years Volume 1 liter

Operating data

	Range	Optimal
Voltage (V)	2-6	3
Current density (A/dm2)	0.5-10	3
Working temperature (°C)	20-60	40 - 50
Exposure time (sec)	20-60	40
Cathode efficiency (mg/Amin)	4-8	6
Anode/cathode ratio	1:1-4:1	2:1
Anode type	Titanium platonized	
Agitation	Moderate	

Metal concentr	ration	
Metal	Range (g/l)	Optimal (g/l)
Rhodium	0.6 - 5.0	2.0

Deposit data	
Purity (%)	99.9
Hardness (HV 0,01)	800-900
Density (g/cm3)	12.4
Thickness (um)	0.02-0.20
Appearance	Shiny
Color	White

Preparation

RH2W is a ready-to-use galvanic bath at the concentration of 2 g/l. No preparation is required.

Equipment

Working vessel: Pyrex glass / PVC / polypropylene.

Power supply: DC current rectifier with low residual AC (<5%).

Heating element.

Anode Type Platinized Titanium [1.5-2.5 µm].

For larger bath volumes:

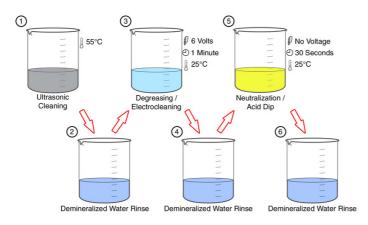
Magnetic driven filter pumps with 5-15 µm cartridge (before use, boil and wash the cartridges with demineralized water for 3 hours to prevent organic contamination).

Amp/min counter.



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Pre treatment Cleansing procedure



Bath maintenance

Small-sized RH2W (until 5 liters) can be used until the rhodium solution is completely exhausted without adding any rhodium concentrate replenisher solution. For larger volumes add RH5RW replenisher solution to restore the optimal rhodium concentration. For perfect electrolyte performance it is advisable to maintain the rhodium concentration at values not lower than 80% of the initial concentration; for example, with a bath operating at a concentration of 2 g/l, additions should be done after a consumption of 0.4 g/l of rhodium. Keep in mind that at optimum conditions a bath working at 2 g/l deposits about 8-10 mg of Rh per ampereminute. Given the cost of rhodium and to have a precise evaluation of the metal consumption it is advisable to perform periodic analytical checks.

Post treatment

The electrolyte should be removed from the surface as quick as possible. Wash off the bath residual in a recovery rinse (still rinse). Rinse the parts in circulating deionized water and dry.

Water purity

To prevent contamination of the bath both during its preparation and any subsequent replenishing operations, use demineralized water with a conductivity of less than 3 µS/cm (containing no traces of organic compounds, Chlorine, Silicon, or Boron).

Safety information

Being an acidic solution, the electrolyte is corrosive therefore is an irritant to the skin, eyes and mucous membranes. Caution should be exercised when using the product, avoiding contact with the eyes and skin. Use gloves and safety goggles. Keep away from cyanide based chemicals. For further information please refer to the relative MSDS.



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