Orange Chemical
PFORZHEIM

Rhodium Nova as Concentrate with 20 g Rh/l

Article No. 4700

Description

Rhodium Nova as is used for decorative surface coating. It forms a brilliant, pure white, extremely wear-resistant deposit.
Rhodium Nova as is especially suitable for the surface finishing of items in palladium, manganese and nickel white golds as well as for the coating of pieces in silver or silver alloys, (as corrosion protection), but can also be used on pieces in non-ferrous metal alloys, (for instance spectacle frames, costume jewelry).as long as these have been coated in palladium instead of the usual nickel under plating layer.

Application

Rhodium Nova as is for use in a conventional electro-plating unit such as Oraplate System. In a new bath the free acid content is 20g/l. This increases during the process and with repeated replenishments. The de position rate diminishes because of this but can be balanced out by increa sing plating time.

Operating Data

Rhodium Content	2.0 g/l – 3,0 g/l
Temperature	20-35°C (optimal 25 – 30 °C)
Exposure Time	2 minutes (1-10 minutes)
Voltage*	2.2 Volts (2.1-4.0 Volts)
Current Density	1.00 A/dm^2 (0.5 -2.0 A/dm^2)
Deposition Rate	12 mg/Amin
pH Value	<1
Agitation	Electrolyte or work piece
Anodes	Platinized Titanium or Mixed Oxide
Tank Material	Glass, alkali-resistant plastic (PP, PVC etc.)

Deposition Data

Density	12,4 g/cm^3
Hardness	approx. 700 HV
Layer Thickness	max.1,0 µm

Supply Forms

Ready for use
Concentrate with 20 g Rh/l

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Regeneration

After prolonged use filter cleaning of the bath over active charcoal is recommended. Afterwards brightener additive has to be added to the bath.

Regeneration is based on analysis of the bath for rhodium and acid content. For regeneration use Rhodium Nova as Concentrate Regeneration Concentrate containing 20 g Rh/l (ref. no. 4800).

Warning

Chemicals and materials used in electro-plating techniques can be corrosive or poisonous. During use, storage, transportation, and disposal the relevant guidelines must be observed.

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