



Johnson Matthey
Chemical Products

Rhodium sulphate plating solution RJ100S



Product name

Rhodium sulphate plating solution

Chemical formula

$\text{Rh}_2(\text{SO}_4)_3$

Product code*

UK - 153100

CN - 3010005L

* This product can be ordered worldwide under the UK and CN product codes.

CAS Number

10489-46-0

Product family

Pgm compound solution (aqueous)

Process

Electroplating

Market

Jewellery, Electronics

This sulphate based concentrate has been specifically developed for decorative applications. It will produce bright, white lustrous deposits up to maximum thickness of 2.5 μm .

Bath preparation

Typical requirements for 1 litre solution

Demineralised or distilled water: 800 ml

Concentrated sulphuric acid: 20 ml
(added cautiously to the water with stirring)

RJ100S: 20 ml

Metal preparation

All components must be thoroughly degreased using trichloroethylene or a similar solvent. Immediately prior to plating the parts should be immersed in dilute sulphuric acid (5% v/v).

Shipping & Handling

Please refer to the relevant Safety Data Sheet for further information.

Plating Conditions

Rhodium content: 1.5 - 2.5 g/l
Sulphuric acid content: 10 - 50 ml/l
Temperature: 20°C - 50°C (optimum 40°C)
Cathode current density: Up to 10 A/dm²
(optimum 2 A/dm²)
Current efficiency: 15 - 20 % at optimum current density

www.chemicals.matthey.com
Johnson Matthey, Orchard Road
Royston, SG8 5HE, UK
Tel. +44 1763 253000