

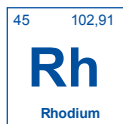
45	102,91
Rh	
Rhodium	

METAKEM
Precious metals & anodes

Rhodium-Decor-S2-BLACK

High-quality rhodium electrolyte for dark,
anthracite-coloured coatings





Precious metal baths

Rhodium-Decor-S2-BLACK

Technical data

Concentrate:	2 g Rh per 100 ml
Colour:	brown
Concentration:	2 g Rh / L
Tank material:	PP
Bath filtration:	required (activated carbon filter if possible for larger bath volumes)
Goods movement:	required
Voltage:	2V – 3V
Temperature:	20 – 30°C
Anode material:	MoxTi, PtTi or PtNb
Anode/cathode ratio:	1:1
Current density:	0.5 – 1.5 A / dm ²
Stirring:	150 cm per minute
Time:	approx. 4 minutes
Deposition rate:	6 mg / Amin

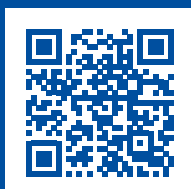
Delivery forms:

ready to use, concentrate form

Bath approach:

required per litre of Rhodium-Decor-S2-BLACK rhodium bath:

- 100 ml Rhodium-Decor-S2-BLACK concentrate
- 900 ml demineralised water



Request product:

→ metakem.de/en/request

Rhodium-Decor-S2-BLACK is used for many decorative purposes due to its corrosion resistance, abrasion resistance and dark colour.

Metals and coatings such as silver, gold, white gold, nickel and palladium/nickel can be rhodium-plated directly. Rhodium layers also serve as tarnish protection for silverware.

Remarks

The rhodium bath is highly sensitive to soiling. Organic impurities can be filtered out using activated carbon. Metallic contamination can no longer be removed and the bath must be replaced.

A normal bathing movement is not sufficient in most cases. The small hydrogen bubbles which form during rhodium plating must be removed. We recommend a bath movement with a beating device; for smaller bath volumes, repeated "tapping" on the fabric bar is sufficient. Maximum exposure time approx. 10 – 15 minutes (approx. 1 micron).

Bath control and regeneration

This involves keeping the metal content constant. The depletion of the electrolyte can be recognised by the quality of the deposition and the colour of the bath. The used bath turns a light yellow colour. Regeneration is possible by adding the rhodium concentrate
Rhodium-Decor-S2-BLACK 10 ml solution = 0.2 g Rh (add to 2 g Rh / L (original colour of the solution)).

Hazard warnings/disposal

Causes severe burns. Wear protective gloves and eye protection / face protection. The bath contains sulphuric acid and must not come into contact with cyanides or cyanide solutions.

The used solution or economy sink contains precious metals, which we will be happy to recondition for you. Recovery of the solution can be profitable from as little as 5 L.

Storage

Keep sealed and separate from foodstuffs and cyanide solutions in suitable, labelled containers.