



## Twin Plaza Metals

### Black Rhodium Concentrate Xtra

Concentrate form (2g Rh/100ml)

#### Solution preparation concentrate form

First mix the concentrate.

Then mix 100ml of the Black Rhodium Bath RHS2BL concentrate with 900ml distilled water.

#### Description

The Black Rhodium Bath RHS2BL deposits dark anthracite-grey, particular decorative Rhodium coatings. The layers are very abrasion resistant, colour consistent and uniform. The electrolyte is preferably used for decorative coatings in the jewellery and eye wear industry. The Black Rhodium Bath RHS2BL is characterised by easy handling and usability. It works at room temperature so a time and energy expensive heat up can be dropped. Coatings up to 0,5 um can be deposited.

#### Operating data

Rhodium Content	2,0 g/l Rh
pH-Value	<1
Density	1,02-1,07 g/cm <sup>3</sup>

#### Operating conditions

Voltage	2-3 Volt
Bath temperature	20-27°C
Exposure time	2 min (1-5 min)
Anodes	Platinised titanium or mixed-metal-oxide MOX
Anode/Cathode Surface	1:1
Agitation	Advantageous
Current density	1,0-1,5 A/dm <sup>2</sup>
Bath filtration	From 10 litres
Deposition rate	7 9 mg/Amin

#### Deposition data

Hardness	300-370 HV
Layer thickness	Max 0,5 um
Layer density	Approx. 10,5 g/cm <sup>3</sup>

#### Bath control

The Black Rhodium Bath should not be treated with charcoal. Otherwise the function would be destroyed.

The Black Rhodium electrolyte may lose its dark colour when it has been in long use. This indicates probably a worked out rhodium content.

#### Recommend pre-treatment

After electrolytic degreasing rinse well and dip in 3-5% sulphuric acid. So a contamination of the rhodium bath will be avoided. After a further rinsing the Rhodium deposition can be done.

#### Storage/Warehousing

Store closed and separated from food products and foodstuffs in convenient and special marked boxes. Do not bring in contact with cyanides or cyanide solutions, because the solutions contain acid sulphur.

#### Risks/Disposal

Disposal of waste solution regulations should be checked. Before disposal of waste solution please refer to requirements your local water authority imposes.

**Please refer to our Safety Data Sheet for further information.**

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