

SILVERBLACK 100

ACCELERATED OXIDATION PROCESS FOR SILVER

Colour : —

Use : **Bath**

Colour coordinates : L: —

a: —

b: —

Product description

SILVERBLACK 100 is an accelerated oxidation process for silver that enables a greyish-black patina on the surface. This patina can be subsequently abraded and/or shaded to obtain an aged silver effect.

Operating conditions

Parameter	Average suggested value
Treatment time	45 seconds
Temperature	25 °C
Voltage	—
Current density	—
Cathodic efficiency	—
Deposition speed	—
Anodes	—
Agitation	Moderate
Ventilation	Necessary

Solution maintenance (SILVERBLACK 100A)

Solution maintenance has no fixed parameters that can be established. Consumption is proportional to the surface of the pieces treated and the drawing incidence. To maintain the efficiency of the solution add, when necessary, 10 ml/l of SILVERBLACK100A until a maximum of 90 ml /l, after that we suggest to change the solution.

Solution maintenance (SILVERBLACK 100B)

Solution maintenance has no fixed parameters that can be established. Consumption is proportional to the surface of the pieces treated and the drawing incidence. To maintain the efficiency of the solution add, when necessary, 10 ml/l of SILVERBLACK100B until a maximum of 90 ml /l, after that we suggest to change the solution.

Following a stop in production, SILVERBLACK 100B may be inefficient. In this case, you can restore the original solution only using the SILVERBLACK 100B product.

Safety Information

Please refer to the safety data sheets for any information regarding safety and disposal (MSDS).

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Preparation of the solutions

The SILVERBLACK process is a dual component system that for use requires preparation of 2 distinct solutions: SILVERBLACK 100A and SILVERBLACK 100B.

SILVERBLACK 100A (blackening solution)

1. Wear all safety devices and activate suction of the work tank
2. Fill the work tank with 50% deionised water
3. Add the quantity of SILVERBLACK 100A (250 ml/l)
4. Bring to final volume with deionised water and set the work temperature by activating the filter pump to get a uniform temperature

SILVERBLACK 100B (fixing solution)

1. Wear all safety devices and activate suction of the work tank
2. Fill the work tank with 50% deionised water
3. Add the quantity of SILVERBLACK 100B (250 ml/l)
4. Bring to final volume with deionised water and set the work temperature by activating the filter pump to get a uniform temperature

Operating cycle

The silver items to treat must be adequately prepared before the blackening process. You are advised to work as follows:

1. Electrolytic degreasing, recovery, washing in deionised water, neutralisation, recovery, washing in deionised water
2. Washing in an aqueous solution composed of 1% acetic acid
3. Immersion in SILVERBLACK 100A solution (formation of black patina)
4. Washing in deionised water
5. Immersion in SILVERBLACK 100B solution (fixing of black patina)
6. Washing in deionised water
7. Possible shading of the patina to obtain the desired effect

Notes

Instructions indicated in Our Process technical data sheets are the result of attentive checks and have been written as a guideline. They represent the best of our knowledge and refer to a normal use of our products. Such products are guaranteed in their quality up to the delivery: we cannot guarantee for the correct use of them, as this action is not under our direct control (addition or correction to plating baths are made by customer's personnel). As a consequence, process instructions have not to be intended as a guarantee of the final result in the use of our products.

Related products

Cod.Articles	Description	Colour	Packaging
BR010325	SILVERBLACK 100A silver oxidation part 1	—	25 L
BR010425	SILVERBLACK 100B silver oxidation part 2	—	25 L