

SurTec® 880 Purifier P

Purifier Solution

Against Metal Contamination in Trivalent Decorative Chromium

Properties

- removes metal impurities including Ni, Fe, Cu, Zn etc. from sulfate based trivalent chromium plating solutions (SurTec 881 ACL Shield, SurTec 882 BK Shadow and SurTec 883 EX White)
- forms insoluble sticky residues with the metal impurities

Application

1 ml/l SurTec 880 Purifier P is able to remove 25 ppm of nickel contamination from the plating solution. When several metal impurities exist, Ni is removed preferentially to other metals. The addition volume should include an appropriate quantity to remove not only Ni but other metals as well.

SurTec 880 Purifier P forms insoluble sticky residue with metal impurities, therefore it is recommended to pump out the plating solution into an auxiliary tank, then SurTec 880 Purifier P treatment can be started.

treatment:

Steps for treatment:

1. Adjust the pH-value to the normal operating range.
2. Keep the temperature within 60-65°C.
3. Stop the filtration unit and start vigorous air agitation.
4. Add the required volume of SurTec 880 Purifier P to the plating solution.
5. Keep strong air agitation for 1 hour at least.
6. Leave the solution more than 5 hours with keeping temperature of 40-60°C.
7. Filtrate the plating solution through the filter unit to remove the residue of metal impurity.
8. Analyse the metal impurities. If the treatment effect of SurTec 880 P is not sufficient, repeat the treatment (step 1 to 7).

Technical Specification

(at 20°C)	Appearance	Density (g/ml)	pH-value (conc.)
SurTec 880 Purifier P	liquid, yellow-brown, with precipitation	1.08 (1.05-1.11)	10.5 (8.9-11.5)

Product Safety and Ecology

The safety instructions and the instructions for environmental protection have to be followed in order to avoid hazards for people and environment. The Material Safety Data Sheets (according to European legislation) contain explicit details for this.

The following hazard designations and classifications into water hazard classes (WHC) have to be taken into account:

<u>Product</u>	<u>hazard designation</u>	<u>water hazard class</u>
SurTec 880 Purifier P	N - Dangerous for the environment	WHC 2

Warranty

We are responsible for our products in the context of the valid legal regulations. The warranty exclusively accesses for the delivered state of a product. Warranties and claims for damages after the subsequent treatment of our products do not exist. For details please consider our [general terms and conditions](#).

Further Information and Contact

In our forum, you can discuss topics of the surface technology:

<http://forum.SurTec.com/>

If you have any questions concerning the process, please contact your local technical department: <http://SurTec.com/International.html>

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