

SurTec® 761

Additive for Continuous Strip and Tube Plating

Properties

- does not effect the life time of DSA anodes
- produces soft zinc layers with good adhesion and high corrosion resistance
- based on zinc sulfate, special qualified for the use of insoluble anodes
- liquid and easy to dose
- works in a wide range of current densities
- prevents dendrite formation at the edge of the strip
- prevents burnings and has a good levelling effect
- the deposited zinc layers are ductile
- zinc depositions are easy to passivate

Application

make-up values:	zinc sulfate · 7 H ₂ O	350-480 g/l
	sodium sulfate (optional)	70 - 80 g/l
	SurTec 761	7 ml/l
temperature:	50-65 °C	
pH-value:	0.9-1.8 adjust with sulfuric acid	
current density:	15-200 A/dm ² depending on temperature, line speed and electrolyte agitation	
line speed:	at least 10 m/min depending on desired current density and temperature	
current efficiency:	90-98 %	
deposition weight:	20-250 g/m ²	
anodes:	DSA anodes	
tank material:	acid resistant material	
filtration:	continuous filtration necessary	

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (conc.)
SurTec 761	liquid, colourless, clear	1.018 (1.00-1.03)	13 (11-14)

Maintenance and Analysis

Analyse and adjust the concentration of zinc, sulfate and the pH value regularly. To control the concentration of SurTec 761, an analysis with HPLC is recommended (if required, HPLC can be done by SurTec, please ask for further information).

To prevent an accumulation of decomposition products, filtrate with active carbon in regular intervals.

Consumption and Stock Keeping

The consumption depends heavily on the drag-out. To determine the exact amounts of drag-out, see [SurTec Technical Letter 11](#). The following values per 10,000 Ah can be taken as estimated average consumption:

SurTec 761 0.5-1 l

In order to prevent delays in the production process, per 1,000 l bath, the following amount should be kept in stock:

SurTec 761 200 kg

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 761	C - Corrosive	WHC 1

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>