

Bright Zinc Electrolytes

Robust and Long Lasting !

alkaline zinc processes

weak alkaline zinc processes

cyanidic zinc processes



ZINCASLOT ZA 1020

Concentrations and operating conditions

	Range
Zinc g/l	9 - 15
Sodium hydroxide (caustic soda) g/l	120 - 130
Sodium carbonate g/l	< 60
Operating temperature °C	20 - 30
Cathodic current density A/dm ²	max. 5,0

Bright Zinc ZINCASLOT ZA 1020 represents the latest generation of alkaline, cyanide-free zinc electrolytes. The very good adhesion of the coatings is guaranteed even at an extremely high total alkaline content. The process is also less sensitive to hard water. Bright Zinc ZINCASLOT ZA 1020 is suitable for both barrel- and rack application. Excellent metal distribution a high brightness degree of the deposited layers as well as good results in chromating and passivating are the features of this electrolyte. It offers a wide operating range with regard to the applicable current density.



SLOTANIT OT 1010

Concentrations and operating conditions

	Range
Zinc g/l	25 - 45
Chloride g/l	125 - 180
Boric acid g/l	20 - 28
pH range	5,0 - 5,4
Operating temperature °C	20 - 45
Cathodic current density A/dm ²	0,5 - 4,0

Bright Zinc SLOTANIT OT 1010 is a weak acidic electrolyte for both rack- and barrel parts. High brilliance at excellent bright throwing power and perfect ductility of the bright zinc coatings in combination with good chromating and passivating are the remarkable features of this process. The interfering cloud point also at a high salt content isn't to be expected, so electrolyte temperatures of up to 45 °C especially at barrel application are indeed practicable without a decrease in the degree of brightness. Independent of this fact we recommend to maintain a operating temperature of < 35 °C for rack parts in order to make use of the better degree of brightness and the better throwing power.

SLOTANIT OT 1

Bright Zinc SLOTANIT OT 1 is a weak acidic bright zinc electrolyte for both rack- and barrel parts. High brilliance as well as a simple electrolyte operation, robustness and high stability are the remarkable features of this process proven over a number of years. Even at a high salt content no interfering cloud point will occur so electrolyte temperatures of approx. 50 °C especially at barrel application are indeed practicable. At electrolyte temperatures > 35 °C a slight decrease of the brightness especially at rack parts becomes visible without a considerably impaired throwing power of the electrolyte. Due to wastewater technical aspects the electrolyte is usually operated ammonium-free. However, the use of ammonium salts is allowed.

Concentrations and operating conditions

	Range
Zinc g/l	30 - 45
Chloride g/l	125 - 180
Boric acid g/l	20 - 25
Ammonium g/l	0 - 10
pH range	4,8 - 5,4
Operating temperature °C	20 - 40
Cathodic current density A/dm ²	1,0 - 4,0



SLOTANIT OT 60 1

Concentrations and operating conditions

	Range
Zinc g/l	30 - 45
Chloride g/l	125 - 180
Boric acid g/l	20 - 25
Ammonium g/l	0 - 10
pH range	4,8 - 5,4
Operating temperature °C	20 - 60
Cathodic current density A/dm ²	0,2 - 1,5

Compared with conventional bright zinc processes Bright Zinc SLOTANIT OT 60 1 shows a higher tolerance towards high temperatures. Up to 60 °C in barrel application there is neither a decrease in brightness nor an excessive consumption of additives. Therefore Bright Zinc SLOTANIT OT 60 1 is first choice for barrel application with a high electrolyte load. Depending on metal concentration, chloride content and electrolyte temperature, SLOTANIT OT 60 1 can be operated with a high current load.

SLOTOCYN 10

Concentrations and operating conditions

	Range
Zinc g/l	12 - 24
Sodium hydroxide (caustic soda) g/l	60 - 90
Sodium cyanide g/l	25 - 55
Operating temperature °C	20 - 35
Cathodic current density A/dm ²	max. 4,0

Easy operation, excellent stability and high applicable cathodic current densities are the features of Bright Zinc SLOTOCYN 10. Its coatings are also at a slightly higher operating temperature over a wide current density range bright and show good chromating behaviour. Bright Zinc SLOTOCYN 10 can be operated in both rack- and barrel installations with either high and low cyanide level, depending on the zinc concentration in the electrolyte.

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