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CL ACID ZINC 500

PROPERTIES

CL Acid Zinc 500 is a weak acid, ammonium free, high duty zinc electrolyte which offers brilliant and ductile zinc coatings without a turbidity point. A large through put by short exposition times, in the barrel as well as rack application, can be achieved due to the high current efficiency of the electrolyte and the above average high applicable current densities. CL Acid Zinc 500 does not require a cooling system and is suited for a 100% recirculation. The extremely high efficiency reduces nearly completely the increase of zinc and the risk of hydrogen embrittlement induced brittle fractures. CL Acid Zinc 500 is AOX-free, free of complex agents and contains neither Methanol, Ethanol or Isopropanol. CL Acid Zinc 500 layers can be passivated without any problems.

MAKE-UP FOR 100 LTR. ZINC ELECTROLYTE

Zinc chloride	6,00 kg
Potassium chloride 99%	20,00 kg
Boric acid	2,5 kg
Sodium benzoate	0,2 kg
CL Acid Zinc 500 Wetting Agent	2,00 – 4,00 ltr.
CL Acid Zinc 500 Brightener	0,1 – 0,4 ltr.
Starter solution	0,2, - 0,4 ltr.

NOMINAL VALUES

Zinc	25 – 35 g/l
Chloride	120 – 140 g/l
Boric acid	20 - 30 g/l
pH value	5,2 – 6,0 Optimum 5,5 – 5,8
Temperature	20 – 60 °C
Current density	0,5 – 6,0 A/dm ² cathod. Max. 3 A/dm ² anod.

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HRB 5025 Amtsgericht Solingen. Ust-ID-Nr. DE 813 359 241

Geschäftsführer : Uwe Lüdtke

BATH CONTROL AND MAINTENANCE

According to the required brightness are per 10000 Ah 1 – 2 ltr. CL Acid Zinc 500 Brightener required. The CL Acid Zinc 500 Wetting Agent must be replenished with boric acid a ratio of 1 : 1.

The Brightener and the Wetting Agent should be determined in the hull cell from time to time. Due to the electrolytes' extremely high efficiency are hydrochloric acid corrections usually not necessary.

If the pH values must be decreased (for example in case of conversion), diluted chem. pure hydrochloric acid must be used.

The pH value can be increased with 10% caustic potash by continuous stirring. The inorganic must be determined analytically and have to be replenished pre-dissolved during idle times.

EQUIPMENT

Tank:	made of PVC/PP or rubber lined steel tank.
Bath movement/ Mechanical movement	a bath movement in the form of filtration is recommended. By high applicable current densities is a mechanical movement or air agitation advisable.
Heating	Heating may be necessary by temperatures under 20°C (especially in the winter period).
Filtration	a filtration is recommended with a filter mesh of 10 – 100 µm at 1 – 3 circulations per hour.
Anodes	To avoid roughness and other problems, we recommend the use of anodes with a purity degree of at least 99,95%. Anode bags must be cleaned thoroughly followed by a subsequent rinse in diluted hydrochloric acid.

RECYCLING AND WASTE WATER TREATMENT

CL Acid Zinc 500 and its rinse water can be treated with a simple neutralisation under observance of the local waste water regulations.

A nearly 100% recirculation is possible by a temperature increase to above 35 °C. Herewith is a disposal or waste water treatment avoided.

SEALING

A temporary corrosion protection is achieved by an immersion in the last rinse water with CL Inhibitor VP 392 prior to drying.

Especially tubes or parts with a difficult geometrical shape are protected from rust.

CL Inhibitor VP 392 supplies temporary corrosion protection on all metal surfaces and reduces the grip sensibility and finger prints on the parts.

CL Inhibitor VP 392 offers furthermore a optimum bonding surface for a subsequent lacquering.

SPECIFICS

Iron precipitations with an oxidant is not necessary any more. Dragged in impurities by oils, lubricants etc. can be removed with a suitable filter aid.

PACKSIZES

CL Acid Zinc 500 Brightener 30 L / 200 L / 1000 L

CL Acid Zinc 500 Wetting Agent 30 L / 200 L / 1000 L

HAZARD INDICATION

Attention has to be paid to the legal regulations for the handling of dangerous working substances. Chemicals without a hazardous indication should not be seen as harmless.

Also with the handling of chemicals which do not require a registration, we recommend to take care and to avoid for example skin contact.

WARRANTY

Seller makes no warranty, whether of merchantability, fitness or otherwise, expressed or implied, concerning the product other than it shall be of the specifications stated herein. Any recommendations made by Seller concerning the use of the product are believed to be reliable, but seller makes no warranty of the results obtained. Buyer agrees to inspect the product supplied hereunder immediately after delivery. Failure to give notice in writing as aforesaid within the specified time constitutes an unqualified acceptance of the product and a waiver of all claims with respect thereto.

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