

ECOLUX STEEL



- ► ONLY ONE RECTIFIER
- ► ONLY 3 ADDITIVES
- ► EFFICIENCY 95%
- ► EASY ON IRON DIE-CAST AND HIGH ALLOY STEEL DEPOSITION
- ► SAFE TIME DEPOSITION: 50% LESS
- DOUBLED PRODUCTION
- ► SAFE COST OF ENERGY: 50% LESS
- ► FREE FROM HYDROGEN EMBRITTLEMENT





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ECOLUX STEEL

ECOLUX STEEL is a Zn/Ni process based on acid electrolyte with a nickel content of 10-16%. The deposits meets the automotive requirements and specifications for fasteners regarding nickel content and corrosion resistance. The process is economic, easy to handle both barrel and rack.

▶ FEATURES

- ECOLUX STEEL is Zn/Ni process in acid electrolyte with a 10-16% of Nickel in the deposit
- Only one rectifier
- Compared to other Zn/Ni process from acid electrolyte, ECOLUX STEEL uses a weakly complexant to avoid problems in waste water treatment
- The electrolyte solution remains clear at room temperature and does not need to heat when the bath is not operative
- The solution remains clear in a wide temperature range
- It doesn't need a frequent maintenance of the tank, therefore a lower maintenance cost is required
- Additives have a high cloud point. The main cause of deterioration is drag-in and drag-out
- ECOLUX STEEL uses fewer additives than ordinary electrolyte systems, making the process simple and economical
- It is possible to use bath with mixed salts
- Suitable with transparent/iridescent or black passivation

MAKE-UP

	RANGE	OPTIMUM
Zinc metal	22 - 30 g/l	26,0 g/l
Zinc chloride	46 - 63 g/l	55 g/l
Nickel metal	22 - 30 g/l	26,0 g/l
Nickel chloride - 6H ₂ O	89 - 121 g/l	105 g/l
Potassium chloride	160 - 200 g/l	180 g/l
Ammonium chloride	45 - 75 g/l	60 g/l
Ecolux steel A	10 - 20 ml/l	15 ml/l
Ecolux steel B	1 - 2 ml/l	1 ml/l
Ecolux steel C	10 - 20 ml/l	15 ml/l
Ecolux steel D	4 - 6 ml/l	5 ml/l

It's possible use also boric acid instead of ammonium chloride at 30-40 g/l.

▶ OPERATIVE CONDITION

	RANGE	OPTIMUM
ZN/NI metal ratio	0,8 - 1,2	1,0
Temperature	30 - 35 °C	32°C
рН	5,0 - 5,5	5,3
Density of cathodic current	0,5 - 3,5 A/dm ²	-
ZN/Ni anodes ratio	1:2	-



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