

TriPass ECO 3

Blue/Clear Trivalent Passivate

#EU86006

Description

Tripass ECO 3 is a liquid trivalent passivate concentrate for producing highly protective blue/clear conversion films on electroplated zinc deposits from rack or barrel operations. The passivate film produced by Tripass ECO 3 give good corrosion resistance, which can be boosted by an addition of Tripass ECO 3 A. It is an excellent base for subsequent organic finishes. The Tripass ECO 3 Inhibitor help to control iron contamination, improving the life of the working solution dramatically.

Tripass ECO 3 solutions are easy and Economical to operate due to the wide operating ranges. The film is exceptionally strong when wet, making it ideal for bulk processing.

Features	Benefits
Single component liquid	Simplified make-up No handling of nitric acid
Wide operating parameters	Consistent product Fewer rejects Simplified control
Produces adherent film on chloride zinc	Reduces rejects due to non-adherent film
Excellent wet strength	Fewer rejects due to scratching in bulk applications.
96 Hours N.S.S. to white corrosion, with the use of Tripass ECO 3 A	Reliable finish
Long bath life, with Tripass ECO 3 I	Economical in use

Operating Conditions:

	Optimum	Range
Concentration	35 mL/L	20-50 mL/L
Temperature	24°C	19° - 30°C
Immersion Time	20 seconds	10 to 45 seconds
Agitation	Air recommended	
pH	2.0	1.6 – 2.4

To increase the corrosion resistance and the blue colour add up to 2mL/L of Tripass ECO 3 A.

For complexing iron add 0,5-1,0g/L of Tripass ECO 3 Inhibitor

Equipment:

Tank

Koroseal, polyethylene, polypropylene, PVC, Type 316 Stainless Steel or ceramic tank (lead is not suitable)

Racks

Conventional plating rack - preferably plastisol coated

Baskets

Stainless steel, polypropylene, nickel or plastisol coated steel

Temperature

The operating temperature can vary widely. At room temperature, the solution operates satisfactorily (Generally, no heating or cooling is required if the room temperature is in the operating range). Higher temperatures will promote faster film formation.

Solution Control

Visual:

The solution can be controlled visually by adding 10% of the original charge until a noticeable change in the colour of the passivated work is apparent.



pH

Adjust with nitric acid or 10% solution of sodium hydroxide

A simple addition of 10% of the original charge may be made to control the pH. When the pH is in range and the film is unsatisfactory, this usually indicates the bath should be discarded.

Safety & Warning

MacDermid, Inc. recommends that the company/operator read and review the MacDermid Material Safety Data Sheets for the appropriate health and safety warnings before use.

Tripass ECO 3 is an oxidising agent. Do not allow it to contact combustible matter. It should be stored in a cool, dry area.

Material Safety Data Sheets are available from MacDermid.

Waste Treatment

Prior to using any recommendations or suggestions by MacDermid, Inc. for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment, which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.

Solutions of Tripass ECO 3 contain trivalent chromium. The trivalent chromium must be precipitated as chromic hydroxide prior to disposal.

Order Information

Product	Product Code	Container
TriPass ECO 3	EU86006	25 – 220 l
TriPass ECO 3 A	EU86007	25 – 220 l
TriPass ECO 3 Inhibitor	EU86008	25 kg

Disclaimer

Any information given here relating to Health & Safety should be regarded as general advice and is not to be regarded as comprehensive or definitive.

Every user should also be in possession of Safety Data Sheets for each individual product/chemical used. These are available for all products sold by MacDermid.

The Safety Data Sheet contains the definitive advice.

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