



Product Information

TIB Finish CH03

Product number 303838

TIBCHEMICALS

PRODUCT DESCRIPTION

TIB Finish CH03 is Trivalent Chromium (Cr3+) passivator that when added to a water quench tank or dedicated passivation bath, imparts a clear passivation layer that inhibits the formation of white rust for up to 4 months.

TIB Finish CH03 forms a coating that can be over painted. It is recommended to test for paint compatibility initially.

FEATURES AND BENEFITS

- Clear coating
- Stops the formation of white rust up to 4 months
- Forms a protective layer
- Over paintable
- Readily soluble
- Ease of dosing

PROPERTIES

Density	1.03 g/ml
Appearance	Dark green liquid
pH in solution	3.9
Solubility	easily soluble in water
Composition	Contains Trivalent Chromium only
Others	Corrosive

STORAGE

TIB Finish CH03 has a shelf life of approximately 1 year if stored in sealed containers in a cool dry place

Packaging

Canister of 25 kg
IBC of 1000kg

CUSTOMS TARIFF NUMBER

32091000

HANDLING, HEALTH AND SAFETY

Suitable protective clothing should be worn when handling the product for further information refer to the relevant MSDS

APPLICATION INFORMATION

Typical Operating Parameters

Type of work:	HDG (Cold)	HDG (Hot)
Concentration	150 – 240 g/l	35 – 90 g/l
Bath temp.	20-40 °C	50-90 °C
pH	4.5 – 5.0 Recommended	
Conductivity	1000–5000 µS/cm	100–3000 µS/cm
Time	4 - 6 mins	0.5 – 2 mins
Drying temp.	20 -150°C	

Initial composition of a new tank (suggested) per m³

Type of work	HDG (Cold)	HDG (Hot)
TIB Finish CH03	200 L	60 L

Make-up

It is recommended to use Deionised water for the best results. However, if tap water is used (not recommended), then the addition of Acetic acid may be required to lower the pH to 4.5 - 5 BEFORE the addition of TIB Finish CH03. The conductivity of the water used should not exceed 30 µS/cm

The maximal acceptable contamination from Zinc or Chloride is 500 ppm

If the conductivity exceeds the maximum allowed value, a partial or complete disposal of the bath must be carried out

Testing and Control

Regular and Frequent testing for the following must be carried out:

1. TIB Finish CH03 concentration
2. Conductivity
3. Chromium III and Zirconium concentration
4. Contaminants i.e. Zinc, Iron, chlorides,

Please refer to the methods of analysis for more detail.

Additions

The replenishment of **TIB Finish CH03** should only be carried out following the results of the analysis of the bath solution. Make up the remaining volume of the bath with Deionised water. If Acetic acid is used to adjust the pH then a **MAXIMUM** amount of 40ml of 60% Acetic acid per m³ of Volume may be used. used per day, then first retest the pH the following day. When operating the TIB Finish CH03 in deionised water at the advised concentration, no pH correction should be required.