

CT-455 Acid Cleaner

Introduction

CT-455 is an inhibited sulfamic acid.

CT-455 removes iron rust and converts all Fe⁺⁺⁺ to Fe⁺⁺

CT-455 can be used with all metals except Zinc and electro- galvanized steel.

Physical Properties

Appearance..... Red to yellow amorphous
S.G..... -
PH..... -
Flash Point..... Non flammable
Odor..... Odorless
Solubility..... Max 8%

Application

CT-455 can be used by circulation or by dip.

The required quantity of CT-455 depends on the quantity of scale to be removed.

Concentration rate is about 1.5 kg of CT-455 per kg of scale to be removed (as CaCO₃).

When it is impossible to know exactly the weight of scale, a solution of 10% CT-455 is used.

The concentration of CT-455 in solution must not exceed 15% w/w

Descalant solution can be circulated through the descaling apparatus with a pump or can be stirred with compressed air (at 2 or 4 bar pressure). The idea is to renew the contact areas constantly.

Time of treatment will be defined according to the density of scale (Evolution of pH & TDS).

Temperature range: 25 to 70°C

* CT-455 when diluted, it turns to purple color, which will turn violet color when pH reaches 5.

*At the end of the process (pH should range from 2.5 to 3.5); drain the solution bath and rinse with running water to eliminate any traces of acidity.

CT-450 should be used after this procedure to neutralize the effect of using CT-455

Handling and usage Instruction

- 1- Dilute to a ratio: 1 (product): 10 (water).
- 2- Stir the mixture.
- 3- Dip the parts that need to be treated into the mixture (increase temp up to 60 °C to accelerate the process); Dip time shouldn't exceed 36 hours.
 - In case of increasing pH more than 5 **CT-455** should be added to reduce pH back to value 2.
 - Monitor pH, if no increase in its value it means no more scale to be removed.
- 4- Rinse the parts with water.
- 5- Dip in alkaline **CT-450** for 1: 2 hrs for neutralization.
- 6- Rinse with water.

Safety & Handling

Wear protective gloves & goggles & safety suit while handling.

Storage

- Store in cool, dry and well ventilated area.
- Keep container closed after use; avoid contact with eyes & skin.

Packaging

CT-455 is available in 20kg plastic container.