

# **Antox® 71 E Plus**

Translucent Pickling Paste for Stainless Steels  
A Product of the Chemetall Group

## **Field of Application**

The removal of high temperature oxide scale and annealing colors in the areas of weld seams and heat-influenced zones.

## **Working Tools**

- Antox pickling brushes of acid-resistant materials for repeated use or
- Antox disposable brushes of synthetic materials (see separate working tools list).

## **Application and Procedure**

Before commencing work, safety precautions must be observed and protective equipment made use of.

*Antox 71 E Plus* is to be stirred with a plastic or wood stirrer before use, or shaken briefly.

*Antox 71 E Plus* is to be painted generously on the pickling positions. The reaction time should be observed. Neutralization is then to be undertaken with Antox NP, after consulting the relative application instructions (see Notes on Antox NP). Upon completion, the processed surface is to be rinsed under cold water, using a high pressure water jet appliance (at a pressure of at least 120 bar). The rinsing effect can be improved and enhanced by employing plastic or stainless steel wire brushes.

## **Reaction Time Periods**

Rusty and acid-resistant steels, stainless steels	15 - 60 minutes
Nickel and nickel alloys	5 - 20 minutes
Copper-nickel alloys	5 - 20 minutes

The reaction time period is dependent on the quality of the working materials treated as well as on the ambient air- and materials-temperature. The optimal pickling temperature is around 18° – 22° C. Work routines should be avoided in direct sunlight (due to hazard of premature drying).

## **Yield**

1 kg of Antox 71 E Plus is sufficient for 50 – 80 running meters approx. of weld seam with heated area.

## **General Remarks**



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*Antox 71 E Plus* contains no hydrochloric acid and no chloride.

### **Notes on hazards and suggestions for safety precautions**

*Antox 71 E Plus* contains hydrofluoric acid and nitric (azotic) acid.

Extremely toxic when inhaled or swallowed. Contact with the skin can cause severe acid burns.

Work routines should be carried out in a well ventilated area. Store also in a well ventilated enclosure (the cans should be tightly closed). Breathing apparatus should be used when ventilation facilities are insufficient. Appropriate protective goggles, gloves and clothing should be worn whilst working.

Contact with the eyes should be treated by thorough rinsing with water and thereafter a doctor should be consulted. Contaminated and soaked protective clothing should be immediately changed. A doctor should be consulted if nausea is experienced. (the physician should be shown the notes on safety precautions, the product notes or the product label).

Please also observe the detailed information given in the German DIN Standard "SIDA" safety data sheet.

These products should not be accessible by children. The products are only intended for commercial and industrial use.

### **Disposal of Waste**

*Antox 71 E Plus* nor the rinsing water may be disposed of in the public sewers in an untreated state. The waste water is acidic and contain alloy residue solids from the treated metal. Appropriate treatment should be carried out in a suitable neutralisation plant or disposal undertaken via a licensed waste disposal enterprise. All local waste water public sewerage regulations are to be observed.

**This edition replaces all previous editions, which then lose their validity. The information and details are given to the best of our knowledge and belief, and conform, at the time of going to print, to the forementioned experience in laboratory situations and in practice. These are however only to be understood as non-binding guidelines, which will have to be adjusted individually to meet the requirements of every situation in practice. As the application and use of our products are outside our control and influence, we can only accept liability for the irreproachable, standard quality of the products at the moment in time of delivery. Any consequential loss or damage will only be addressed when the possibility of such has been previously agreed in writing before application and use, by making reference to the advertised and warranted characteristics and effects.**



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