

# **Antox® 80E**

Bath Pickle for Stainless Steels  
A Product of the Chemetall Group

## **Field of Application**

Pickling stainless steel parts in the dip method.

## **Can constituents**

Polyethylene, polyvinylchloride (PVC), polypropylene, polytetrafluorethylene (Teflon).

## **Use and application**

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

*Antox 80 E* is applied in a volume ratio of 1:1 to 1:3 with water. The water is put in first, and then the same quantity of Antox 80 E is added. The reaction time should be observed. The optimal reaction time must be determined in a preliminary test. The pickling times are extended through the loading of iron in the bath. The maximum loading in a pickling bath of Antox 80 E (used 1:1) is approx. 30 g/l iron. The acid content and the iron concentration must be checked regularly by our Technical Laboratory.

*Antox 80 E* should be used with a bath temperature of 18 - 22° C. The surface of the stainless steel should be free of oils and grease before pickling. In the event of heavy contamination, clean with Antox 75 E before pickling (see Notes on Antox 75 E).

Upon completion, the surface dipped in the pickling bath 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. Rinse until the water running off is neutral (check with indicator paper).

## **Reaction Time Periods**

Rust and acid-resistant steels, stainless steels 15 - 60 minutes

The reaction time period is dependent on the quality of the working materials treated, the temperature of the ambient air and materials and the condition of the bath.

## **Yield**

1 kg of Antox 80 E is sufficient for approx. 4 m<sup>2</sup> of surface area.



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## General Remarks

*Antox 80 E* contains no hydrochloric acid and no chloride.

## Notes on hazards and suggestions for safety precautions

*Antox 80 E* contains hydrofluoric acid and nitric (azotic) acid.

Very toxic when breathed in and swallowed. Contact with the skin causes severe acid burns.

Process and store in a well-ventilated place (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 doctor 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 to children. For commercial and industrial use only.

## Disposal

Neither *Antox 80 E* nor the rinsing water may be disposed of in the public sewers in an untreated state. The waste water is acidic and contains 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. The local waste water 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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