

CARECLEAN PICKLING PASTE

Pickling Paste for austenitic stainless steel.

INTRODUCTION

Careclean Pickling Paste is a colourless paste for austenitic stainless steel. It contains nitric acid and hydrofluoric acid. It contains neither hydrochloric acid nor chlorides.

APPLICATION

Careclean Pickling Paste is used for the pickling of welded seams and surfaces of austenitic stainless steel in any kind of construction, included for instance the outside of pipes and tanks. Steels other than austenitic stainless steel will be corroded by the strong pickling effect of the Careclean Pickling Paste. Nickel, nickel- and copper-nickel-alloys may also be pickled with the Careclean Pickling Paste. Special precautions have to be followed to prevent these materials from corrosive attack. Some of these metals and welding materials have been tested. Kindly contact Marine Care for further information.

DIRECTIONS FOR USE

1. Pretreatment

See general information.

2. Pickling

Please read the security instructions before you start pickling.

During storage the paste may become partially liquid.

Mix the Careclean Pickling Paste, using a plastic or wooden spoon, then put it on the surfaces and welded seams to be treated. Use a resistant brush without metal parts.

If the pickling treatment is protracted, clean the brush frequently, so that the dirt is not widely spread. On conclusion, clean the brush thoroughly with water and allow it to dry.

The Careclean Pickling Paste is applied at room temperature, until the surface is well covered; a thicker coating should be applied to the welded seams. 1 Kg. of the paste is sufficient to treat about 70-150 m. of welded seams (5cm wide) or 4-8m² surface depending on the quantity and nature of iron oxides to be dissolved.

Allow the pickling agent to act for 15-60 minutes on austenitic stainless steel, 5-20 minutes on nickel, nickel-alloys and copper-nickel-alloys (see Applications).

If the pickling has not been sufficient, then rinse and reapply the paste.

For a temperature change of 10 degrees centigrade up or down from room temperature, the pickling activity and thus the pickling time changes roughly by a

factor of two. Normally it is sufficient to let the Careclean Pickling Paste act for the given time without a further mechanical action. As the welding quality has a big influence, further mechanical aid may become necessary. This may for instance be done by brushing with brushes made from natural or plastic fibres or from austenitic stainless steel, provided that the paste is still active.

3. Rinsing off the Careclean Pickling Paste

The Pickling Paste must be removed completely by an efficient rinsing process. The main part of the paste may also be removed with rags or tissues.

Dirt that may not be chemically dissolved will be partially or completely loosened by the acid creeping in between the metal and the contaminant. Therefore we recommend rinsing with a cold high pressure water jet of at least 50-60 bar, to remove the dirt and the paste. If higher pressure water jetting is not possible, then you can improve the rinsing by brushing with e.g. natural or austenitic stainless steel brushes or with appropriate grinding pads.

Nickel, its alloys and copper-nickel alloys have to be rinsed and cleaned very thoroughly after pickling. The chloride content of the rinsing water should be as low as possible. If possible, use demineralised water.

4. Passivation

See general information.

5. Treatment of the effluent

See general information.

PROPERTIES

Strongly acid product.

Product contains nitric acid and hydrofluoric acid, contains neither hydrochloric acid nor chlorides. Completely miscible with water.

To be used for the pickling of austenitic stainless steel, too corrosive on other steels. To be used on nickel, nickel alloys and copper-nickel-alloys under special precautions - please contact Marine Care.

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| Specific gravity (at 20°C) | : 1,28 |
| Flashpoint c.c. | : none |
| pH (1% solution) | : 1,1 |

For detailed information on safety and health, please refer to Material Safety Data Sheet and / or Product label.

The details of our products are given completely free of undertaking. Since their application lies outside our control we cannot accept any liability for the results.