

Vecinox Pickling Paste 14 LN

Low NOx Pickling Paste for stainless steel.

- Brush-applied pickling paste that adheres well to vertical surfaces
- Sharply reduced emission of nitrous vapours (up to 80% NOx reduction!)
- Free of chlorides and hydrochloric acid, excluding onset of pit corrosion
- Rapid pickling action
- Suitable for local treatment like welding seams
- Simple and efficient application

Application

For the pickling of austenitic and duplex (austenitic/ferritic) stainless steel, nickel and nickel alloys. VECINOX PICKLING PASTE 14 LN is used for the removal of welding discolorations, rolling scale, embedded iron etc., because those impurities reduce corrosion resistance significantly.

VECINOX PICKLING PASTE 14 LN dissolves foreign particles on stainless steel that have appeared during mechanical and/or thermal processing such as bending, setting and welding. These may be iron particles and the oxides/hydroxides of iron, chromium, nickel, etc.

Less nitrous vapours

During the pickling process the nitric acid, present in most pickling solutions, is converted into poisonous nitrogen oxides. These 'nitrous vapours' are recognisable by their yellow colour. VECINOX PICKLING PASTE 14 LN contains accelerators that convert these nitrogen oxides into nitric acid and nitrogen gas. This provides the product with additional advantages compared to conventional pickling paste products: greatly reduced emission of poisonous nitrous vapours (up to 80% reduction), faster reaction due to less loss of the nitric acid and agitation that refreshes the acid at the surface reducing the pickling time.

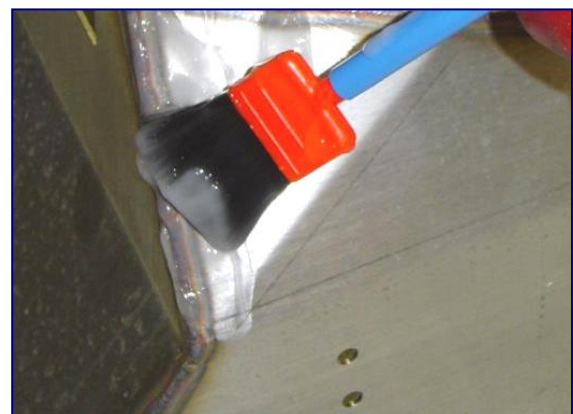
Directions for use

Pre-treatment

Before pickling, the surfaces to be treated should be cooled down and be cleaned and degreased. For removing felt pen etc., the use of VECLEAN® ELECTRO SPRAY is recommended. For cleaning and degreasing use STEAMCLEAN HPC-NF.

Pickling

Shake VECINOX PICKLING PASTE 14 LN well before use and apply in a uniform layer using an acid-resistant brush. The pickling time will depend on the method of welding, the nature of the shielding and backing gas, the type of stainless steel and the temperature of the object to be pickled.



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Rinsing

After pickling, the VECINOX PICKLING PASTE 14 LN should be rinsed off thoroughly. Contamination that is not dissolved will detach completely due to the penetration of the acid on the metal under the contamination. This contamination is best removed with a cold-water jet under high pressure (min. 50-60 bar). When high-pressure spraying is not possible, rinsing can be helped by brushing (use acid-resistant material). When possible, the process should be concluded by rinsing with demineralised water. The chloride content of the rinse water should be as low as possible (preferably < 50 mg/l Cl⁻).

Passivation

The protective chromium oxide layer on the stainless steel will form spontaneously under oxidizing conditions. For example during rinsing with oxygen-rich (demineralised) water or during 24 hours exposure to the atmosphere. When the pickled material has to be used shortly after pickling (within 24 hours), or in case it is exposed to a corrosive atmosphere during natural passivating, we recommend that it be passivated chemically with VECINOX PASSIVATING LIQUID (L-800).

Treatment of the used paste

The rinse water with the used paste should be treated with quicklime (calcium hydroxide) in order to neutralize the acid and precipitate (remove) the fluoride and heavy metals. The recommended pH value lies between 8.5 and 10. After sedimentation of the insoluble constituents, the supernatant water may in most instances, after being inspected, be released to the drains. Separate the insoluble and take the precipitated sludge to an accredited processor.

Properties

Colourless paste. Strongly acidic product that contains nitric acid and hydrofluoric acid. Contains no chlorides or hydrochloric acid.

Specific Gravity (20 °C)	: 1.29
Flash point	: none
pH (1% solution)	: 1.0

Nature of special risks and safety advice

See our Material Safety Data Sheet.



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