

Vecinox Pickling Liquid 30

Liquid pickling agent for austenitic stainless steel.

- Free from chlorines so that no pit corrosion can take place
- Quick pickling action
- Easy and efficient to use
- To be used as immersion bath liquid and as circulation liquid

Application

To pickle austenitic stainless steel, nickel and nickel alloys. VECINOX PICKLING LIQUID 30 is used to remove welding colourations, rolling skins, welding slugs, abrasive dust, embedded iron etc. because these can decrease the corrosion resistance strongly. VECINOX PICKLING LIQUID 30 dissolves remains that have occurred during a (mechanical) treatment. These could be iron particles and the oxides/hydroxides of iron, nickel, chromium etc.

Directions for use

Prior to pickling surfaces, these should be cleaned and degreased. To remove felt-tipped pen, DEGREASER 156 should be used. For degreasing we advise to use a 1 - 5% solution of STEAMCLEAN HPC-NF. The duration of pickling depends on the way it has been welded, the characteristics of the backing gas, the type of stainless steel and the temperature of the object.

We advise the following pickling times:

	AISI 304L (1.4306)	AISI 316L (1.4404)
welded S.S.	15 - 60 min.	30 - 120 min.
unwelded S.S.	15 - 30 min.	30 - 60 min.

NOTICE: Every 10 °C rise in temperature halves the pickling time, and every 10 °C lowering doubles the pickling time.

For nickel, nickel alloys and copper/nickel alloys we advise a pickling time (at 20 °C) of 5 to 20 minutes.

Rinsing

The VECINOX PICKLING LIQUID 30 should be completely rinsed afterwards. Contamination that is not dissolved chemically will loosen due to the acid working on the metal under the contamination. This contamination is removed optimally if the surface is sprayed with a high pressure water beam (50 to 60 bars). If high pressure spraying is not possible, rinsing can be effectuated by brushing (use acidproof material like scouters). If possible the last phase should be spraying with demineralized water. The concentration of chlorines should be as low as possible (by preference less than 20 mg/l Cl⁻).

Passivating

The protective chromiumoxide layer on stainless steel is spontaneous formed under oxygen rich conditions like long term rinsing with (demineralized) water or storage in open air. If the pickled materials are exposed to corrosive conditions shortly after pickling (within 24 hours), we advise to passivate with VECINOX PASSIVATING LIQUID.

Treatment of the used liquids

The water that has been used for rinsing, as well as the used pickling liquid, are to be treated with lime to neutralize the acid and to precipitate the fluorides and heavy metals. The advised pH-value is 8.5 - 9. After neutralization the loose silt is to be discharged to a licenced Chemical Waste company.

V-COM CHEMICALS Your chemical and industrial cleaning expert

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. Contact details: sales@v-comchemicals.nl / +31 (0) 10 593 0203

Properties

Very acid colourless liquid that contains nitric acid and hydrofluoric acid. Does not contain chlorines or hydrochloric acid.

Specific Gravity (20 °C) : 1.1
Flash point (PMCC) : none
pH (1% solution) : 2.0

Nature of special risks and safety advice

See our Material Safety Data Sheet.

Voluntary recommendation:

Read the safety directives on the packaging prior to using VECINOX PICKLING LIQUID 30. If pickling is done in insufficient aerated places, we advise to wear a breathing filter (type ABEK). Avoid the use of cleaners with so called hard complexing agents, as these can influence the neutralization and detoxification badly. In case of contact with the skin, rinse with plenty of water and smear with HYDROFLUORIC ACID BURN OINTMENT.

V-COM CHEMICALS Your chemical and industrial cleaning expert

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. Contact details: sales@v-comchemicals.nl / +31 (0) 10 593 0203

www.v-comchemicals.com