

POLIGRAT-PRODUCTINFORMATION

POLINOX B Protect



Bio Pickling of Stainless Steel

Properties and effect

The anti-corrosion properties of rust-free stainless steel are drastically improved by POLINOX B Protect. The natural passive layer of stainless steel is cleaned and strengthened through deep-acting specific agents. Besides of this basic features of POLINOX B Protect this process can be used for rust is removing without damaging the metallic surface

Furthermore even in the vicinity of a weld the corrosion resistance of the stainless steel surface is improved to the point that pickling will often become unnecessary.

The action of POLINOX B Protect is based on the deep-cleaning (iron removal) of the passive layer. The surface finish whether matt or shiny remains unchanged. The surface is also color-stabilized, thus up to temperatures of 240°C no tarnishing occurs. POLINOX B Protect improves all types of stainless steel, even ferritic Cr-steels (>15% Cr). Treated surfaces are approved for the use in direct contact with foods (ISEGA).

Application

POLINOX B Protect is applied as bio pickle (fully bio-degradable chemicals) by immersion, or pumping through pipes. The treatment time depends on the state of the surface with optimal improvements being achieved after 3 hours.

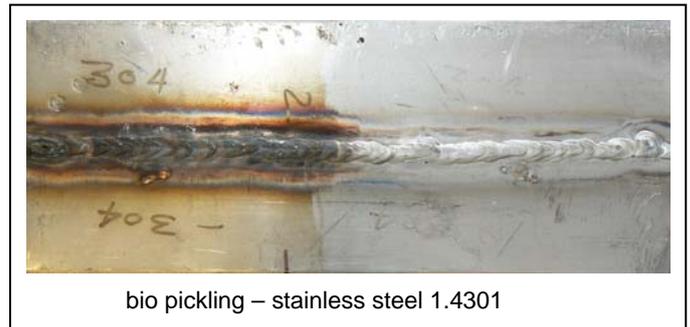
After treatment, the surfaces have to be thoroughly rinsed with clean water or de-ionized water if required. POLINOX B Protect is not specified as hazardous, it is easy to handle and bio-degradable.

Process temperatures have to be over 50 °C in immersion baths in order to avoid bio-degradation.

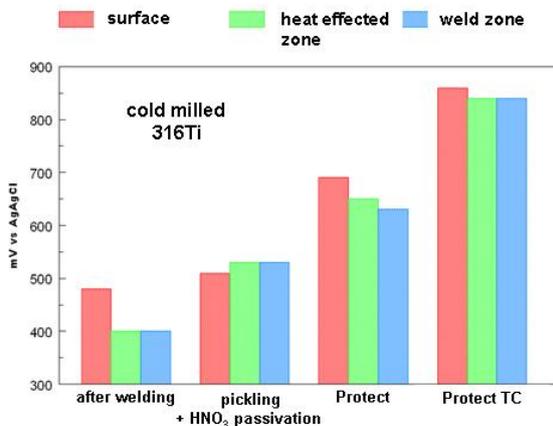
The rinse water is acidic and has to be neutralized according to the statutory laws and regulations.



rust removing – stainless steel 1.4016



bio pickling – stainless steel 1.4301



Your advantage

- improves the corrosion resistivity significantly
- removes corrosion and protect in one step
- improves the corrosion resistivity of welds even without conventional pickling
- no hazardous good, bio-degradable