

MARINE CARE TECHNICAL SERVICES

CHEMICAL PICKLING & PASSIVATING

Rotterdam

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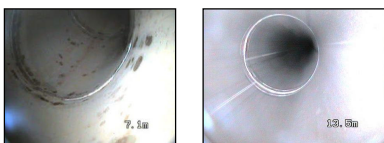
Inspection & Treatment of Stainless Steel Cargo Tanks & -Lines on Marine Vessels

.. With over 50 years of experience in the field of metal surface treatment Marine Care Technical Services B.V. is now providing her services with a flying team on a global scale.

Maintaining a hands on approach, we can be your partner in supplying expertise in any stainless steel job. From detailed tank and cargo line inspections, managing welding, grinding and polishing jobs to pickling and passivating.

Inspections

During any of our inspections we can do internal pipe surveys with a boroscope, passivation measurements using our digital passivity meter and ferroxyl tests (embedded iron). Also visual inspections for discoloration-, deformation- and heat affected zone detection can be conducted. After inspection a report is drafted and if required managing both mechanical and chemical treatment can be carried out.

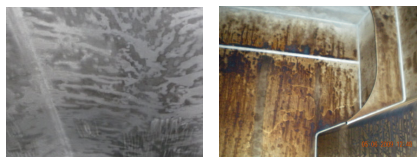


Cargoline before treatment Cargoline after treatment

The inspection of cargo lines is conducted with a boroscope which makes it possible to detect deterioration and discoloration of the internal pipework (especially in the heat affected zones near welding seams).

Welding, grinding and polishing

If conditions require we offer managing of grinding, welding & polishing for treatment and removal of pitting, superficial corrosion and discoloration.



Pickling & Passivation

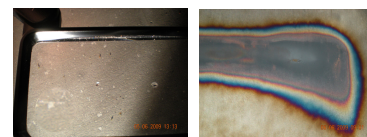
Pickling and Passivating of the stainless steel surface is carried out either by circulation or spraying to remove the embedded material and/ or to restore the chromium oxide layer to obtain a complete passive surface.

After the treatments the conditions of the surface will be checked by a passivity meter and ferroxyl test to determine the surface is completely passive and free of embedded iron.

Disposal of the waste water after treatment could be arranged on demand.

Maintenance

Maintenance of stainless steel is very important and should not be underestimated! If a bad condition of stainless steel is neglected the consequences for the cargo tank could be disastrous. Smoothness, cleanliness & passivity of the stainless steel surface of the tanks are very important in terms of cleaning possibilities, purity and corrosion resistance.



For onboard control and periodic checks we offer our Oxilyzer and Ferroxyl Test Kit. The Oxilyzer is a digital passivity meter which can be applied on 3 types of stainless steel (AISI 304, 316 & Duplex). The Ferroxyl Test Kit detects embedded iron in tanks that could, if left untreated, cause corrosion.



We look forward being in touch for any of your issues with stainless steel..

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