



**MARINE
CARE**

CARECLEAN PL-CON

DISCOVER THE DIFFERENCE

**Concentrate liquid for spotless passivation
austenitic stainless steel**

- Biodegradable
- Special detergent added for spotless drying
- Approved by:
> IMO

DESCRIPTION

Careclean PL-Con is based on nitric acid 68% and non-ionic surface active substances. Careclean PL-Con provides austenitic stainless steel with a protective chromium oxide layer after pickling or restores the chromium oxide layer of stainless steel. The passive layer of austenitic stainless steel can be damaged over time due to carrying high concentration strong acid (such as: phosphoric, sulfuric) cargoes. In most cases, the passive layer did not get enough time to restore itself before charging the cargo. Careclean PL-Con will aid and accelerate the passivation process after pickling, in case passivation by ambient air is not possible or insufficient.

ADVANTAGE

- Quick and total passivation
- Spotless drying

APPLICATIONS

Careclean PL-Con is mainly used for passivation of austenitic stainless steel tanks and pipelines. It may be used by means of circulation, spraying or in immersion baths.

Recirculation Method

Make a 40% solution of Careclean PL-Con in fresh water and circulate this. The treatment time is approx. 2 hours. After circulation drain the system and rinse thoroughly with a good quality (Chlorides < 1 mg/l or ppm) demineralized water. After drying, test the passivity of the stainless steel using the Passivation Test Kit or the Oxyilzer (digital passivity metering device).



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Spraying

Careclean PL-Con is sprayed in a 40% dilution on the surface and is left to react for 15 - 30 minutes, making sure the solution does not dry during this period of time. After this, rinse thoroughly with plenty of demineralized water. After drying, test the passivity of the stainless steel using the Passivation Test Kit or the Oxilyzer (digital passivity measuring device).

Immersion Bath

Fill a plastic or plastic lined bath with a 40% solution of Careclean PL-Con. Submerge the parts into the bath and leave them to react for 30 minutes to 2 hours depending on the degree of austenitic steel.

Remove the parts from the bath and spray them with a powerful water jet. Demineralized water should be used for this purpose.

DIRECTIONS FOR USE (SEE APPLICATIONS)

DI WATER UNITS

Marine Care supplies a complete range of demineralizer bottles. The bottles contain a mix of cationic and anionic (mixed-bed) resin, to remove dissolved metals, hardness, sulfates, chlorides, etc. from the water.

These demineralizer bottles are available in 40, 75, 100 and 150 liters.

TEST EQUIPMENT

Marine Care provides a *Passivation Test Kit* based on palladium chloride or a digital passivity meter (*Oxilyzer*) to measure the condition of the stainless steel. This equipment determines the level of passivity of the treated stainless steel.

DOSAGE

Spraying	40%
Recirculation	40%
Immersion	40%

PROPERTIES

Article number	14633 / 16633
pH	1
Density	1,40-1,45 g/cm ³
Flashpoint	None
Physical state	Liquid

APPROVALS

- IMO approved in accordance with MEPC 590 Guidelines

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

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