

Products:

PL-Con 40

- PL-Con 53
- PL-Con 69

Concentrated liquid for spotless passivation austenitic stainless steel

DESCRIPTION

Careclean PL-Con is based on nitric acid. 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 loading the next cargo.

ADVANTAGE

- Quick and total passivation
- Spotless drying

PRODUCTS

- Careclean PL-Con 40
- Careclean PL-Con 53
- Careclean PL-Con 69

See directions for each product on next pages.

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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DIRECTIONS FOR USE

Careclean PL-Con 40 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

A 45% solution is prepared by mixing 450 liters of Careclean PL-Con 40 with 550 liters of 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 Oxilyser (digital passivity metering device).

Spraying

Careclean PL-Con 40 is sprayed in a 45% 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 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 Oxilyser (digital passivity measuring device).

Immersion Bath

Fill a plastic or plastic lined bath with a 45% solution of Careclean PL-Con 40. 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. Good quality (Chlorides < 1 mg/l or ppm) demineralized water should be used for this purpose.

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, 103 liters.

TEST EQUIPMENT

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

DOSAGE

Spraying	45%
Recirculation	45%
Immersion	45%

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CARECLEAN PL-CON 40

• Approval: > IMO



DIRECTIONS FOR USE

Careclean PL-Con 53 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

A 30% solution is prepared by mixing 300 liters of Careclean PL-Con 53 with 700 liters of fresh water and circulation. 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 Oxilyser (digital passivity metering device).

Spraying

Careclean PL-Con 53 is sprayed in a 30% 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 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 Oxilyser (digital passivity measuring device).

Immersion Bath

Fill a plastic or plastic lined bath with a 30% solution of Careclean PL-Con 53. 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. Good quality (Chlorides < 1 mg/l or ppm) demineralized water should be used for this purpose.

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, and 103 liters.

TEST EQUIPMENT

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

DOSAGE

Spraying	30%
Recirculation	30%
Immersion	30%

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CARECLEAN PL-CON 53

• Approval: > IMO



DIRECTIONS FOR USE

Careclean PL-Con 69 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

A 23% solution is prepared by mixing 230 liters of Careclean PL-Con 69 with 770 liters of fresh water. 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 Oxilyser (digital passivity metering device).

Spraying

Careclean PL-Con 69 is sprayed in a 69% 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 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 Oxilyser (digital passivity measuring device).

Immersion Bath

Fill a plastic or plastic lined bath with a 23% solution of Careclean PL-Con 69. 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. Good quality (Chlorides < 1 mg/l or ppm) demineralized water should be used for this purpose.

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. The demineralizer bottles are available in 40, 75, and 103 liters.

TEST EQUIPMENT

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

DOSAGE

Spraying	23%
Recirculation	23%
Immersion	23%

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CARECLEAN PL-CON 69

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