

### MAINTENANCE

## PASSIVATION FLUID SS

CONCENTRATED LIQUID FOR THE PASSIVATION OF  
AUSTENITIC STAINLESS STEEL SURFACES



### DESCRIPTION

**PASSIVATION FLUID SS** is a concentrated blend of highly active acids and non-ionic surfactants, used for the passivation of pickled components made of austenitic stainless steel. The metal surface gets rapidly covered with a uniform, dense and protective layer of iron and chromium oxides, providing a high degree of corrosion protection.

### APPLICATION

Once having used **PICKLING FLUID SS** on austenitic stainless steel surfaces, rinse with plenty of water. Immediately after that, apply **PASSIVATION FLUID SS**. Never use it on other materials, as it will corrode them.

### USE AND DOSING

**Important Information and Precautions:** Always make sure that there is sufficient ventilation to prevent the accumulation of gases and wear a breathing filter for acids. The process of applying acids may generate flammable/hazardous gas, including hydrogen. Do not perform hot work when acid is in circulation. When circulating the solution, always circulate with inlet at the bottom to avoid air pockets and potential entrapment of gaseous reaction products.

Product should always be used in plastic containers. Always add the product to water, never the reverse.

Do not allow the acid solution to remain in equipment for a prolonged amount of time. After pickling, rinse thoroughly with water.

**Before Cleaning:** Passivating treatment with **PASSIVATION FLUID SS** is only applicable if previous pickling using **PICKLING FLUID SS** has taken before.

**Circulation:** Mainly for pipe systems. Fill the system with cold, undiluted **PASSIVATION FLUID SS**. Circulate for about 2 hours. Drain the system and rinse thoroughly with demineralized water. After drying, test the passivity of the steel surface using a palladium test kit.

**Spraying:** Mainly used via a tank washing device. Spray on-site, always observing the appropriate safety and acid disposal procedures and using appropriate equipment. Spray undiluted for about 15 minutes. Afterwards, rinse thoroughly with plenty of, preferably demineralized, water, until free of all acid. After drying, test the passivity of the steel surface using a palladium test kit.

When diluted it is suitable for cleaning aluminum.

- ✓ Deactivates erosive conditions and protects against corrosion of stainless steel surfaces
- ✓ Used only after pickling has occurred
- ✓ Used undiluted on stainless steel
- ✓ Non-Flammable
- ✓ Non-Conductive
- ✓ Cost effective

### PROBLEMS SOLVED

- ✓ Protection of steel surfaces from corrosion, via the formation of a protective oxide layer, after surfaces have been pickled
- ✓ Aluminum cleaning, when diluted

### APPLICATION AREAS

- ✓ Pickled, austenitic stainless steel surfaces
- ✓ Aluminum surfaces, when diluted

PRODUCT CODE: MC 154

**Effluent treatment:**

Before disposing the used solution, it should be neutralized with slaked lime, up to a pH value of 8.5-9.0. This way, the acids are neutralized and fluorides and heavy metals become insoluble. Wait for the soluble substances to settle and drain the uncontaminated water. Isolate the insoluble contamination and, if possible, drain by means of filtration, otherwise mix with sawdust and dispose of as chemical waste.

**PRODUCT PROPERTIES**

Only use on austenitic stainless steel surfaces. It is highly recommended to always test all cleaner solutions on a small area of the object to be cleaned, before full scale application. General Instructions: Avoid spillage, splashing and mishandling. Precautionary measures for body protection are strongly recommended before and during use.

Appearance:	Liquid with pungent odour	pH (1% in water):	1.0 ± 0.5
Density:	1.10 ± 0.05 g/cm <sup>3</sup>	Flash Point:	None