



We are committed to
Reducing your maintenance costs!

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Rust Remover and Passivator

Proxilab cleans and removes rust. Proxilab is designed primarily to promote stainless steel's passive layer which isolates metal from environment and significantly slows corrosion rates.

Note: The main property of stainless steel is its resistance to corrosion by the natural formation, on its surface, of a passive film of chromium oxide. It is the chromium content of stainless steel which permits the formation of a passive film of chromium oxide. This layer of chromium oxide forms naturally when chromium and air are in contact and ensures the protection of the stainless steel under this layer.

Proxilab removes all contamination made by particles of steel that were encrusted in the stainless steel during the different stages of manufacture.

- ✓ Destroys rust without sandblasting.
- ✓ Provides very good passivation on stainless steel.
- ✓ Can be painted. Meets ASTM DB2197-68 «Adhesion Paint Test.»
- ✓ Very efficient against layers of sediment inside pipes.
- ✓ Cleans rust sparks caused by welding and passivate them
- ✓ **Removes rust on all metals:** Carbon Steel, Cast Iron, Brass, Copper, Steel and Stainless Steel.
(Not recommended on zinc.)

APPLICATIONS

- All metals and stainless steel parts. Food Plants, Marine, Mining, Manufacturing and Water Treatment Plants.

The above information is true and precise to the best of our knowledge. All recommendations or suggestions are made without warranty since the circumstances and conditions are beyond our control.

Lubri-Lab Inc. : info@lubrilab.com
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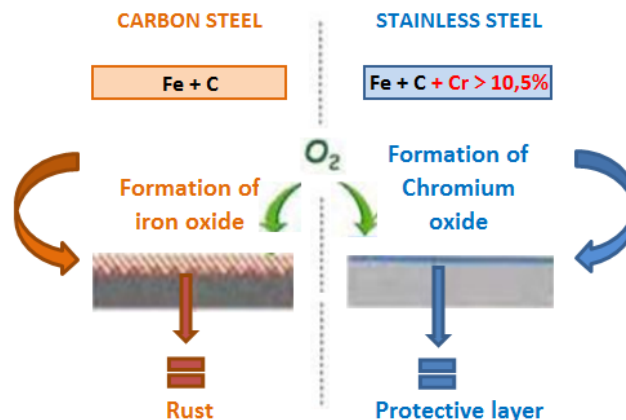
PHYSICAL PROPERTIES

- Aqueous, odorless solution. Available in Liquid or Gel.
- Safe for joints, rubbers, polymers, plastics and wood.
- Food Grade NSF category A3.
- Non-flammable.
- Meets the ASTM A-380-99 Standard, 7.3.4 (Ferroxyl Test).

When rust appears, the metal is no longer passivated locally. At this point, a small pile effect occurs: excess ions prevent natural passivation from recurring, thus rust bites increase. Uncleaned rust points at the first signs will become recurrent by the accumulation of ions at the bottom of the puncture, which cause corrosion reaction.

Proper maintenance of new equipment with a non-formed chromium oxide layer is critical, as they will be more prone to rust. Microscopic cells present on the surface will spread and create corrosion. Proxilab ensures the passivation of stainless steel which helps restore the chromium oxide layer on the surface of the metal.

Proxilab removes metal dust and cleans rust pits, which allows chromium oxide protective film restoration on stainless steel surface.



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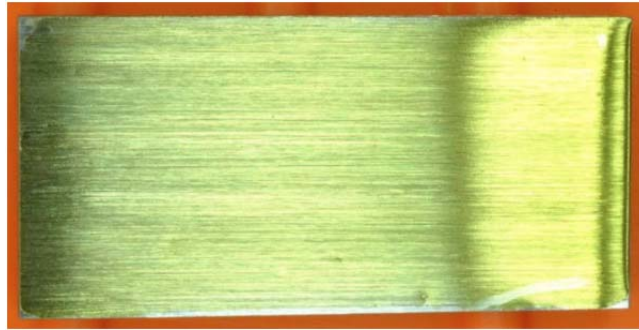
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Proxilab have been validated by a very severe contaminant detection test:

✓ ASTM A-380-99, 7.3.4. Ferroxyl Test



Test with Ferroxyl Solution applied to one of its surfaces after 4 minutes of testing.
No indications of iron/iron oxide particles.

CASE STUDY

H. Fontaine is a manufacturing company specialized in the fabrication of stainless steel products used in the field of water treatment. The decontamination of stainless steel and its passivation are done with a product called Proxilab from the company Lubri-Lab. Following a series of tests that we carried out to check efficiency of decontamination and passivation, we selected this product as a standard in our process of cleaning stainless steel. The efficiency of the Proxilab was validated by a very severe test for the detection of contaminants (ASTM A-380-99, 7.3.4 Ferroxyl test). This test showed us that iron present on stainless steel was completely removed.

We also use Proxilab to very effectively decontaminate products already in service which have undergone severe contamination. One of the advantages of this product, in addition to its effectiveness is its low toxicity and its low corrosive level which allows us to use it with minimal safety concerns.

Erik Breton, Eng.
R&D Manager, H. Fontaine Ltd

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DIRECTION

- Use plastic containers.
- Temperature of operation/equipment must be warm or hot.
- Wear gloves and goggles.
- **Proxilab Liquid** can be applied by a variety of application methods including hand spray, paint brush, roller, immersion, compression sprayer. **Proxilab Gel** can be applied using a paint brush.

To Remove Thin Layer of Rust:

Apply Proxilab Gel with a green pad or a paintbrush, let the product work for few minutes and then wipe it off or rinse with water. The product will work faster in a warm or hot atmosphere. If more passivation is required, coat the metals with a second layer of Proxilab

Direction to Remove Severe Thick Layers of Rust:

Apply Proxilab Gel with a green pad or a paint brush, wait 30 minutes and rinse with water or wipe it off.

Material to avoid

Do not use a steel brush directly on stainless steel, as brush steel wires will create imperfections which is a favorable environment to future rust bites.

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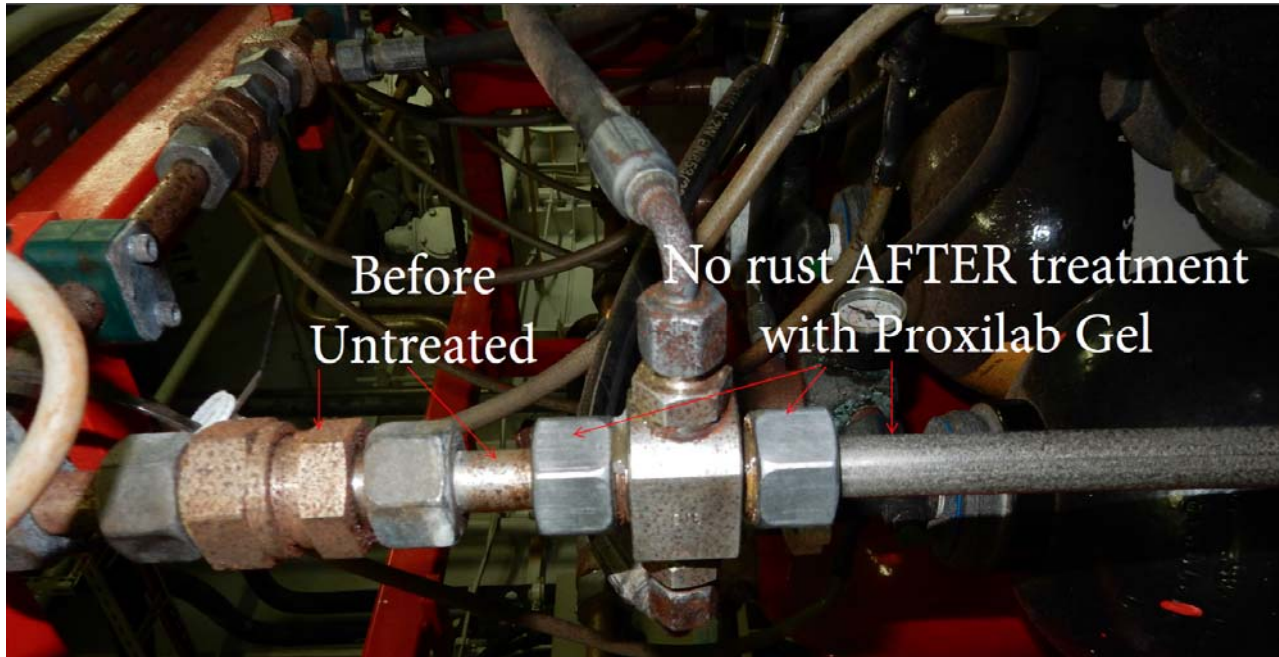
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Results within minutes



Direction to Passivate

This operation allows the passivation of the stainless steel by reforming the chromium oxide protective film.

Clean equipment and remove oily substance or other products that may prevent contact between Proxilab and stainless steel. Apply with a nylon pad, a soft brush, a spray, or by immersion then wipe it off. If a better protection is required, coat the metals with a second layer of Proxilab.

Before painting or putting any other coating treatment, the stainless steel needs 24 to 48 hours in contact with air to form its natural chromium oxide layer.

- ✓ Passivation is essential to allow the stainless steel to reform its protective layer against rust.

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Food Grade Registration:



NSF International registration number: 155936. Category Code: A3.

www.nsfwhitebook.org

This product is acceptable for use in and around food processing areas, where its use is not intended for direct food contact. Use of this product in food processing or handling facilities requires that all food products and packaging materials be removed or protected prior to product use. A potable water rinse of cleaned surfaces is required after use of this product.

Safety use:

Wear gloves and safety goggles. If the product is in contact with skin or eyes, rinse immediately with water. (See Safety Data Sheet)

Incompatibility:

Do not apply on zinc or cement.

Availability:

Gel: 454 grams (1 pound), 5 kilos (1 gallon), 23.6 kilos (5 gallons).

Liquid: Case 12 x 1 liter (1 quart), 3.5 liters (1 gallon) 10 liters (2.5 gallons), 20 liters (5 gallons), 55 liters (15 gallons) 205 liters (55 gallons).

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