

Description

The corrosion resistance and longevity of stainless steel surfaces depend on thorough and professional surface treatment. A good passivation process eliminates corrosion problems by restoring the chromium oxide layer (passive layer) on the surface.

WS 3644 G is a passivating liquid that quickly and evenly restores the passive layer on all stainless steel and alloy surfaces. Its formula does not contain nitric acid, making it a non-hazardous product for the operator. It is highly effective as it restores 100% of the surface's corrosion resistance.

Features

- Nitric acid-free passivator.
- No rinse water treatment required.
- Does not affect the steel surface.
- Easy to handle, classified as non-hazardous.
- Removes traces of ferrous contamination from the surface.

Aplicacions

- Passivation after the pickling or polishing process.
- Immersion passivation of parts.
- Passivation of surfaces and MIG-MAG, TIG, and MMA weld seams.
- Suitable for passivating austenitic and ferritic stainless steels, stabilized and non-stabilized stainless steels, nickel, and its alloys.

How to use

➤ **Safety:**

Consult the product's safety data sheet.

➤ **Application:**

Surfaces must be clean before treatment.

Areas where the product should not or cannot be applied must be sealed or protected with plastic.

The product is ready to use, without dilution.

The reaction time required depends on the ambient temperature and the type of welding (a prior test is recommended).

Exposure Environment	Application Time
Mild Corrosion	30 min
Normal Corrosion	2 h
Heavy Corrosion	6 h
Very Heavy Corrosion	12 h

Rinse thoroughly with water and ensure that no acid residue remains on the surface. Special attention should be paid to cracks and hollow sections.
A final rinse with deionized water is recommended to avoid limescale stains and oxidation caused by chlorine in the mains water.

➤ **Waste Management:**

Wastewater from the process is strongly acidic and contains dissolved metal ions. The concentration of metal ions is normally below the legal limit. A pH neutralization treatment can be performed for subsequent delivery to a waste manager. The waste must be treated as hazardous waste in accordance with legal requirements.

➤ **Storage:**

Store according to local regulations. Observe label instructions. Store containers between 5 and 25°C, in a dry, well-ventilated place, away from heat sources and direct sunlight. Keep away from ignition sources. Keep away from oxidizing agents and strongly acidic or alkaline materials. No smoking. Keep unauthorized persons away. Once opened, containers must be carefully resealed and placed vertically to prevent spillage.

Certifications/Specifications

- Complies with ASTM A967 for passivation of stainless steels.

Technical Data

Features	Specification/Method	Value
Reference	- - - - -	WS 3644 G
Appearance	- - - - -	Liquid
Color	- - - - -	Colorless
Density at 20°C	- - - - -	1,04
pH at 100%	- - - - -	2,05