

KP-TEST (FERROXYL TEST KIT)

KEMPLUS

Passivation test for stainless steel

(In accordance with the principles of ASTM A380/A380M and ASTM A967/A967M stan-

The Ferroxyl test, in accordance with the principles of ASTM A380/A380M and ASTM A967/A967M standards, is used to determine whether an austenitic stainless steel surface has been properly passivated. It is particularly used to detect surface contamination by metallic iron, also known as free iron or foreign iron.

This kit includes three sets of two 5 mL solutions each:

Solution A, the acid activator, and Solution B, the Ferroxyl Test solution. These solutions contain, among other components, nitric acid and potassium ferricyanide. The two solutions must be mixed immediately before use, as the activated mixture has a limited shelf life of approximately 24 hours.

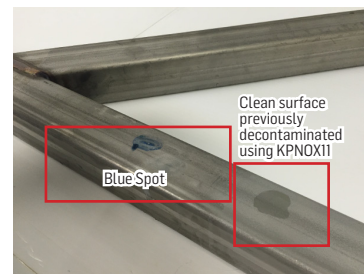
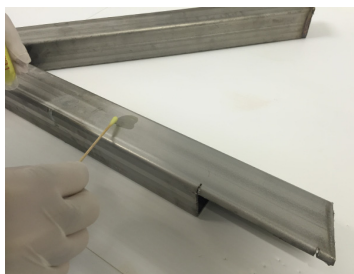
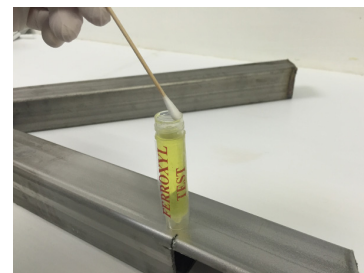
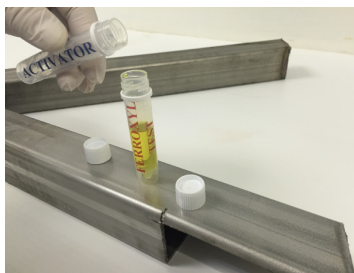
Characteristics: Clear yellow liquid, soluble in water, density 1.0 g/cm³ at 20 °C. Non-flammable product, used for the detection of iron on stainless steel surfaces. Store in a cool, dry, and well-ventilated area. Not regulated under TDG/IMDG/IATA.

Instructions for Use

- 1- Add Solution A – Acid Activator to Solution B – Ferroxyl Test.
- 2- Soak the included cotton swab with the activated solution.
- 3- Apply the solution to the stainless steel surface to be tested and allow it to react for 30 to 60 seconds.
- 4- Observe the surface.

If an intense blue stain appears, this indicates the possible presence of free iron residues or ferrous contamination on the tested surface.

Note: Contaminated stainless steel can be easily decontaminated using KPNOX11, KPNOX27, or KPDRY gel from Kemplus Inc.



Interpretation of Results

The absence of blue coloration indicates that no ferrous contamination was detected under the test conditions. The appearance of a blue or dark blue stain indicates the possible presence of free iron, ferrite, or ferrous contamination. After pickling, blue coloration may also be caused by residues from pickling products. A contaminated surface may be decontaminated using an appropriate product, such as KPNOX11 Gel, and then submitted to a new test.

Do not apply the test to a surface showing visible rust. The surface must be clean and free from apparent corrosion in order to avoid false interpretation of the results

Precautions for Use

The Ferroxyl Test contains chemicals that must be handled with care. Before use: consult the Safety Data Sheet, wear the required personal protective equipment, use the product in a well-ventilated area, avoid contact with skin, eyes, or clothing, and do not heat the product or its components. Potassium ferricyanide may release hazardous fumes if heated to decomposition. On food-grade or pharmaceutical surfaces, the product may be used only if residues are completely removed after the test, according to the applicable cleaning procedures.

Recommended Personal Protective Equipment

Wear impermeable gloves, safety goggles, a lab coat or protective apron, and rubber boots when required.

Cleaning After the Test

Immediately clean the surface with deionized water to remove any solution residues. Contaminated water and residues must be neutralized to a pH of 6 to 8, then disposed of in accordance with applicable regulations.

Ordering Information

# Article	Description	Regular Price
KPTEST (KP-511)	3 kit of 10 ml	129.50 \$

Format du lot :

Chaque kit KP-TEST comprend 3 ensembles de solutions, soit :

3 × 5 mL de Solution A – Activateur acide
3 × 5 mL de Solution B – Ferroxyl Test

Chaque ensemble permet de préparer 10 mL de solution activée en mélangeant 5 mL de Solution A avec 5 mL de Solution B immédiatement avant utilisation.

Durée de conservation :

Les solutions non mélangées ont une durée de conservation de 1 an à partir de la date de fabrication, lorsque les conditions d'entreposage recommandées sont respectées.

Conditions d'entreposage :

Conserver les solutions non mélangées dans leur contenant d'origine, bien fermé, dans un endroit frais, sec et bien ventilé, à l'abri de la lumière.

Pour obtenir davantage d'information sur nos produits et services, demander une démonstration gratuite ou discuter de solutions personnalisées,

veuillez communiquer avec :

Groupe Kemplus Inc.
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Téléphone : +1 514 333-075



www.gkemplus.com

(English in reverse)