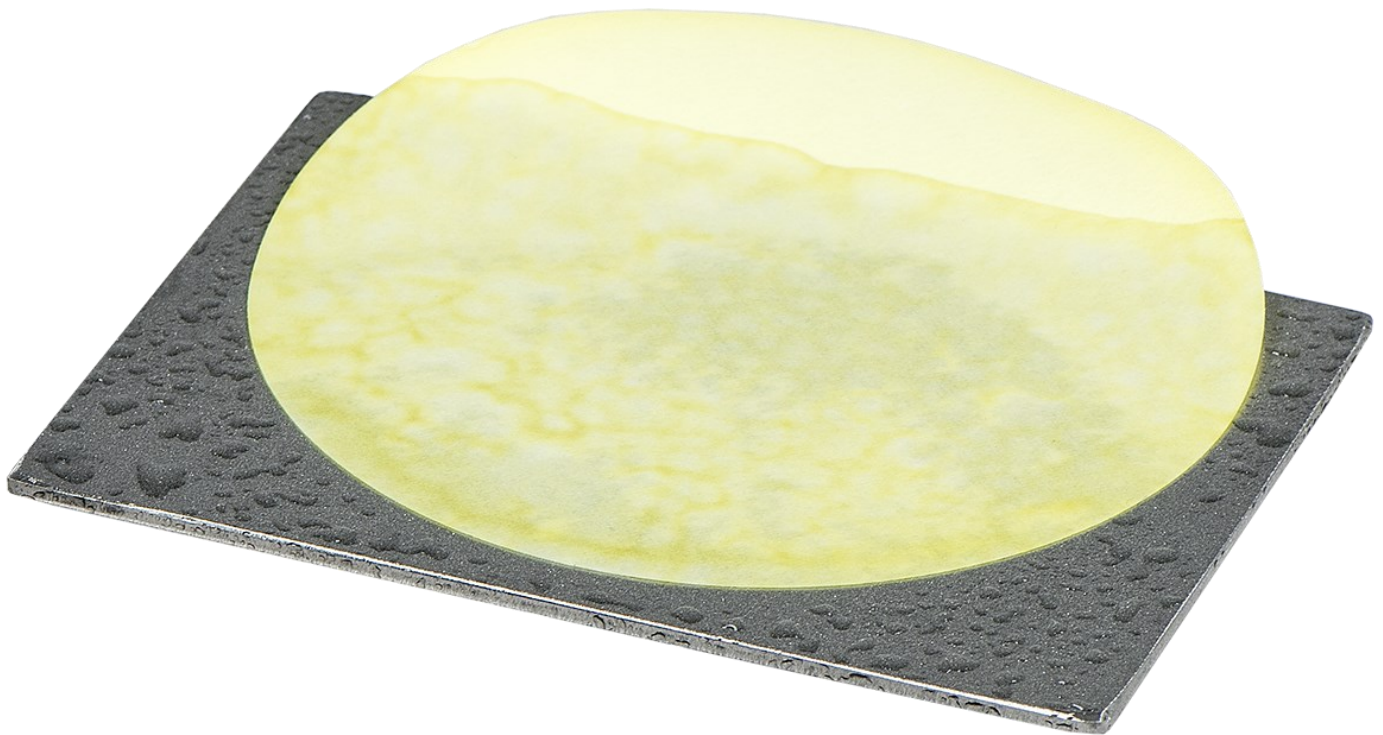


Paint Test Equipment

Potassium Ferricyanide Test



Data Sheet / Instructions

Potassium Ferricyanide Test



Information

NACE 6G186. Appendix A. Potassium Ferricyanide Test For Soluble Iron Salts.

The Potassium Ferricyanide Test enables detection of any water-soluble iron salts that form at the bottom of rust pits after blast-cleaning. If these salts are present, they rapidly induce corrosion.

The test involves the reaction of soluble ferrous iron salts with potassium ferricyanide to form ferric hexacyanoferrate, which is commonly known as Prussian blue. The relatively high tinting strength of Prussian blue enables the reaction to be used as a very sensitive test on ferrous irons.

Simply spray a film of Deionised Water on an area of the blast-cleaned steel. The Test Paper is then held against the surface for approximately 10 seconds. Any soluble iron salts present are drawn out of the rust pits by capillary action and react with the potassium ferricyanide to form blue spots. The presence of blue spots on the Test Paper indicates that the surface should be re-blasted.

Supplied with 100 Potassium Ferricyanide Test Papers, Deionised Water Spray Bottle, Plastic Gloves and Carrying Case.

Potassium Ferricyanide Test



Potassium Ferricyanide Test

Part No	Papers Supplied	Paper Diameter	Deionised Water Quantity	Conformance Cert Part No
P3001	100	90mm	500ml	NPC04
PS102	Spare Test Papers (pack of 100)			NPC04

Potassium Ferricyanide Test Operation

Safety



The Potassium Ferricyanide Test Papers consist of 90mm diameter cellulose, impregnated with a low concentration of potassium ferricyanide.

May produce toxic fumes on burning.

Wear the Plastic Gloves when handling the Test Papers.

After using the Test Papers, wash hands with soap and water.

Testing

Spray a fine mist of Deionized Water droplets onto a small area of blast-cleaned surface using the Spray Bottle.

Allow the Deionized Water droplets to evaporate and at the moment that they have disappeared but the surface is just perceptibly wet, using the Plastic Gloves supplied, apply the Potassium Ferricyanide Test Paper and press onto the surface for 2 to 5 seconds.

If soluble salts remain, these will be drawn by capillary action into the Test Paper and will react and give a Prussian blue dot effect on the Test Paper corresponding to the contaminated pits on the blast-cleaned steel.

It is important that the wetting of the surface has to be completed to the correct degree in order to dissolve the salts. Too little Deionized Water and this will not be achieved. Too much Deionized Water and there will be an overall blue colouration over the Test Paper.

The Spray Bottle can be refilled using Deionized Water.

Shelf Life

Do not expose the Potassium Ferricyanide Test Papers to any extremes of temperature and ensure that they are retained in their light protective bag.

We would recommend that the Test Papers are used within a 6-month period from date of purchase.

About Us

Paint Test Equipment is a global leader in the manufacture of specialist test equipment specifically for the industrial painting and coating industries for the protection of steel assets from corrosion, mainly in the oil, renewables and steel construction sectors. We have over 30 years experience and extensive knowledge in delivering practical solutions in supporting our customers with world class products for corrosion prevention.

Prevention of corrosion on steel is essential to extend the asset lifetime, optimise performance and minimise downtime for expensive maintenance work. Using Paint Test Equipment products ensures that industrial coatings are applied to the highest achievable quality standards of ISO compliance.

We supply small, medium and multinational companies with the full range of technologies and innovations in our unrivalled portfolio of products for our customers to grow their business and enhance profits through cost effective corrosion management equipment.

Paint Test Equipment is committed to providing proactive and innovative solutions to meet customer requirements for the highest quality, user friendly inspection equipment. Paint Test Equipment is the partner of choice.

Paint Test Equipment reserves the right to alter specifications without prior notice.
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Paint Test Equipment

3-4 The Courtyard
Greenfield Farm Estate
Congleton, Cheshire
CW12 4TR, England

www.paint-test-equipment.com

Tel: +44 (0)1260 275614

e-mail: sales@paint-test-equipment.com