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Petcor 2915-C

Barium Free Rust and Corrosion Inhibitor

Description

Petcor 2915-C is a non-emulsifiable, alkali resistant, water displacing rust preventative which is particularly effective at removing water from metal parts after machining operations or alkali cleaning. Free from heavy metals, Petcor 2915-C offers an improved environmental profile as well as helping reduce disposal costs.

Petcor 2915-C offers excellent solubility with a wide range of base stocks or petroleum solvents, depending on the type of film required. It offers high stability in the presence of alkali and demulsibility at all additive concentrations.

The most effective protective film is obtained from solvent cutbacks of 2915-C once the solvent has evaporated. Oil blends will produce softer coatings which are less effective. The water displacement and non-emulsifying properties (even in the presence of alkali) are not affected by the use of oil or solvent.

Petcor 2915-C contains no Barium.

Application

- Use as a rust and corrosion inhibitor. Protection is obtained from solutions containing as little as 5% Petcor 2915-C.
- Concentrations of 5% to 15% Petcor 2915-C in mineral spirits will provide humidity cabinet protection for 30 to 90 days or more.
- When used in low concentrations, the water displacing characteristics will be improved by adding 1% to 3% of a suitable dewatering agent.

Typical Properties

Property	Typical	Method
Appearance	Brown Waxy Solid	Visual
Specific Gravity @20°C	0.905	ASTM D1298
Flash Point (COC, °C)	178	ASTM D92
Saponification Number (mgKOH/gm)	45	ASTM D94
TBN (mgKOH/gm)	28	ASTM D664
Melting Point (°C)	36	ASTM D87

Storage and Handling

Consult the SDS for specific information.

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Report: Salt spray testing on Petrico Products

Product samples tested:-

2915-C Panel C: Petcor 2915C on prepared Q-panel at 21.01 micron film thickness.
2915-C Panel D: Petcor 2915C on prepared Q-panel at 18.45 micron film thickness.

The standard polished Q plates were prepared by being cleaned with low acid paper using toluene and then isopropanol, checking the final piece of paper used showed no sign of dirt from the plate on a final clean.

These were then spray coated with a solution of the product in solvent until the desired dry film thickness was achieved. The film thickness was calculated using the weight of dry product applied and the area covered.

Finally, when tested for salt spray resistance, ASTM B117 method was followed.

Testing Laboratory Used:-

Aerotech LABORATORIES

Accredited Nadcap™ Chemical Processing

UKAS TESTING 1993

Aerotech Laboratories Ltd.
Unit 20 Mercia Business Village
Westwood Business Park Coventry CV4 8HX
Tel : (024) 7647 4474 Fax : (024) 7647 4473
www.aerotechlabs.co.uk

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Results:- Panels C and D

Salt Spray Accelerated Corrosion - Test Report

	Test Report Number	:	***S95127***
	Date Specimens Received	:	*05.07.17*
	Date Test Report Issued	:	*09.11.17*
	Purchase Order No.	:	*9869*
Specification and Test Method		:	*ASTM B117 (rack mount at 20°)*
Test Specimen(s) Description		:	*Steel panel, approx. 150mm x 100mm*
Surface Finish / Treatment		:	*Oil / wax treatment; labelled C & D*
No. of Test Pieces		:	*2 off*
Specimen Performance Requirement		:	*Run to 10% red & record hours.* *Disregard areas within 1 cm of edges and holes.*

Test Results

Treatment	Requirement	Exposure *(hr)*	Test Specimen Condition after Exposure
Oil / wax treatment	Run to 10% red & record hours		*All test specimens;*
		192	Early signs of surface degradation noted to panels.
		936	No significant developments from initial observations. Red corrosion to edges noted.
		1608	Panel D: Isolated spots to main surfaces, <10% corrosion.
		1776	Red corrosion assessed to be <10%.
		2160	Development of red corrosion to edges disregarded.
		2664	Significant red corrosion run off masking accurate assessment of percentage to main surfaces.

Salt: INEOS Enterprises, Runcorn
Salt solution: 50 ± 5 g/L in water conductivity <5µS/cm

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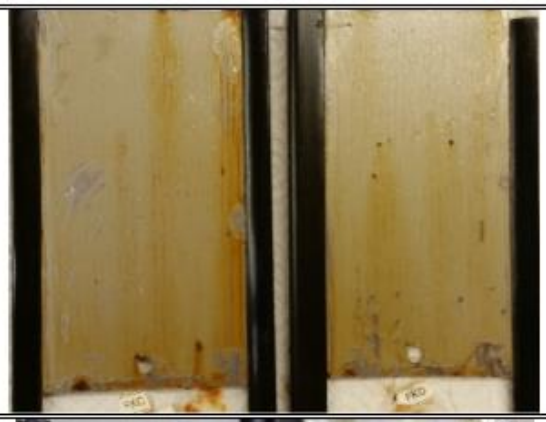
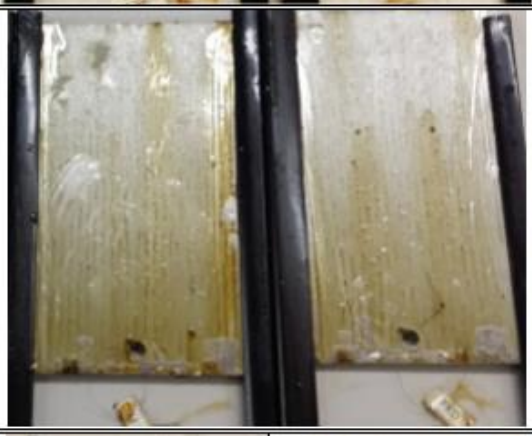
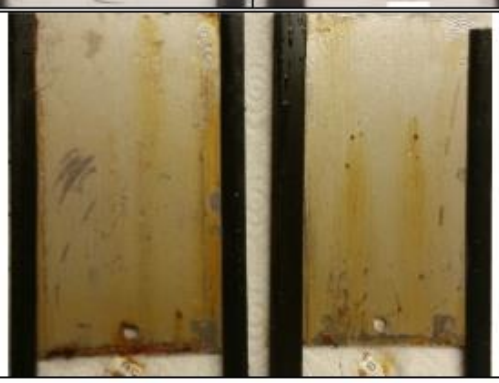
In process and final photos of the panels:

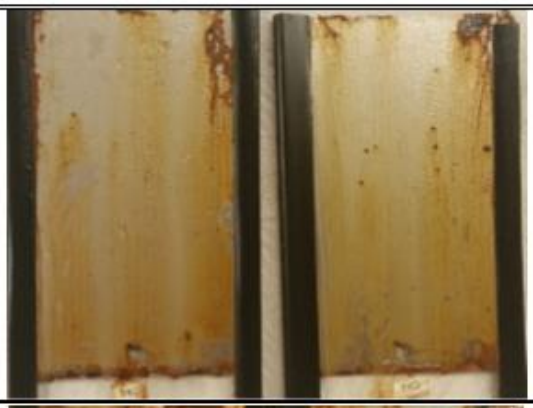
Panel C **Panel D**

Exposure *(hrs)*	Image
192	
264	
480	
768	

In process and final photos of the panels:

	Panel C	Panel D
936		
1032		
1176		
1272		

In process and final photos of the panels:

	Panel C	Panel D
1608		
1776		
2160		
2664