Subject:	Modified FFC test method	
Proposal:	Laboratories WG	
QUALICOAT resolution:	Resolution No. 2/TC 22.11.17 The TC rejected the draft Update Sheet "Modified FFC test method" and asked the Laboratories WG to reconsider its proposal and make a comparative study of the two available methods. Resolution No. 18/TC 16.05.18 The TC endorsed the Laboratories WG's proposal that the ISO 4628-10 standard should be followed for assessing the FFC test results and ratified the draft Update Sheet No. 10 to become effective on 1 January 2019.	
Date of ratification:	16 May 2018	
Date of application:	1 January 2019	
Amendments to the Specifications:	Section 2.19. Filiform corrosion test	

2.19. Filiform corrosion test

TEST METHOD

ISO 4623–2 with the following modification:

Size of samples: preferably 150 x 70 mm

The scratches shall be made as follows:

Make the horizontal and vertical incisions (method A) with a length of 10 cm each. If the panels are not wide enough, the horizontal incisions may be replaced by two incisions, each 5 cm in length, at the top and bottom of the panel.

On each sample, make two scribe marks perpendicular to each other, each at least 30 mm long and at a distance of at least 10 mm from each other and from the edges.

The scribe marks shall be 1 mm in width with a rectangular shape.

If the samples have a small width (<50 mm), no horizontal scribe mark (perpendicular to the extrusion direction) shall be made.

Corrosion is produced by dripping hydrochloric acid (concentration 37%, density 1.18 g/cm³) along the scratches for 1 minute. Then the acid shall be removed carefully with a piece of cloth. Then the acid shall then be removed by dabbing gently with a piece of cloth or laboratory paper and the sample shall be allowed to stand at laboratory conditions for 60 minutes.

After 1 hour in laboratory conditions, the samples shall be put into the test cabinet at $40 \pm 2^{\circ}$ C and $82 \pm 5\%$ relative humidity for 1000 hours.

The samples shall then be put into the test cabinet at $40 \pm 2^{\circ}$ C and $82 \pm 5\%$ relative humidity for 1000 hours in a horizontal position.

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Sample size

Preferably 150 x 70 mm.

ASSESSMENT

Based on the ISO 4628-10 standard.

Using a ruler, determine the length of the longest filament L (mm) as described in the ISO 4628-10 standard, reporting the results for the two scribe marks separately.

The worst results of each test sample shall be reported for the final assessment.

In case of regular filiform corrosion, use method 1.

For irregular filiform corrosion, use method 2.

REQUIREMENTS:

Acceptable limits within 10 cm on each side of the scratch

L (longest filament) ≤ 4 mm

M (average length of filaments) $\leq 2 \text{ mm}$

Number of filaments ≤ 20

The inspector takes three test pieces from different lots. The results are classified according to the scale below:

- A. 3 samples satisfactory = 0 sample unsatisfactory
- B. 2 samples satisfactory = 1 sample unsatisfactory
- C. 1 sample satisfactory = 2 samples unsatisfactory
- D. 0 sample satisfactory = 3 samples unsatisfactory

Final assessment of the FFC test:

- HIGH GOODS HIGH GIVEN TO A COOK			
	GRANTING / RENEWAL OF		
RATING APPROVAL OF ALTERNATIVE PRETREATMENT SYSTEMS		SEASIDE ENDORSEMENT	
Α	Satisfactory	Satisfactory	
В	Satisfactory	Satisfactory with a comment to the coating applicator	
	Unsatisfactory	Unsatisfactory	
С	Repetition of the filiform corrosion test.	 Repetition of the filiform corrosion test 	
	If the result of this second test is C or D, all tests shall be repeated.	If the result of this second test is C or D, the inspection shall be repeated.	
D	Unsatisfactory	Unsatisfactory	
	All laboratory tests shall be repeated.	The inspection shall be repeated.	