



TEST REPORT

Test Report No: 160233

Client: Gulmohar Pack-Tech India Pvt. Ltd.
412105 Tal.-Haveli, District Pune
INDIA

Contract No / Date: - / 11.07.2016

Offer No: 160291

Subcontractors: Not applicable

Archiving of Samples: Three months

Subject of Testing: 1 (VCI) product

Aim of Testing: Determination of the anticorrosive effect of VCI films

Origin of Samples: Sent by customer via mail

Entry Date of Samples: 04.07.2016

Start of Testing: 28.06.2016

End of Testing: 18.07.2016

Laboratory: Lab Material testing

Test Methods: VW 50164, Issue 2013-06
Distance test, flask test (K test) *)

No of Pages: 3

The test methods marked *) are non-accredited test methods

1 Subject of Testing

For examination, the following sample was received, as displayed in table 1:

Table 1. Samples

Sample Name iLF	Sample Name Customer
E-160233-P1	NON VCI 150 µm
E-160233-P2	VCI 150 µm

2 Testing

2.1 Distance test, flask test (K test) acc. VW 50164, subsection 5.1

Preparation: - samples were taken from representative areas of the materials to be sampled
 - cuts with the dimensions 25 mm × (150 ± 0,5) mm were prepared; 8 cuts of VCI material and 4 cuts of the corresponding NON VCI material

Completion: - minimum 4 fold determination with VCI material; 2-fold determination with VCI-free material

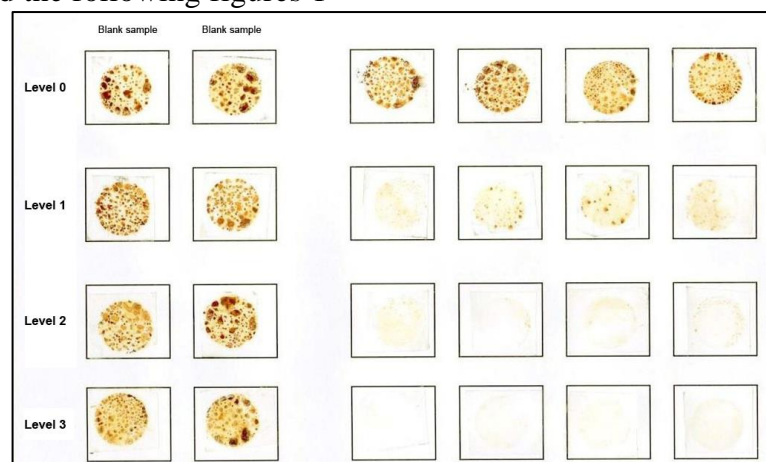
Metallic test specimen:

- in humid air corrodible steel S235JRG2 (Material 1.0038, called constructional steel)

Test set: - Erlenmeyer flask and rubber plug with metallic specimens and 2 "sample Cuts" as a closure for Erlenmeyer flask (temporarily filled with glycerol-water mixture)

Test cycle: - (20 ± 0.5) hours at (23 ± 2C) Erlenmeyer flask empty
 - Filling Flask with glycerol-water mixture
 - (2h ± 10min) at (23 ± 2) ° C
 - (2h ± 10min) at (40 ± 1) ° C

Evaluation: - Analyses of the surface state of the steel specimen according diagrams VW 50164 picture 3 and the following figures 1





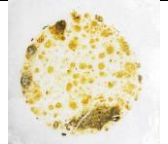
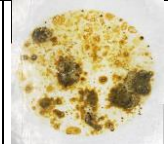


Figures 1:
 Evaluation of the results
 of K test

3 Test results

The following table overview (table 2) summarized the results.

Table 2: Results of the K test

	VCI Material				NON VCI- Material	
Grade	3	3	3	3	0	0
						
Protection level	3				0	
Rating	Good corrosion protection effect				no corrosion protection effect	

4 Assessment

The sample VCI 150 µm has a good corrosion protection effect in the K test acc. VW 50164 subsection 5.1.

Magdeburg, 18.07.2016
 Institut für Lacke und Farben Magdeburg gGmbH



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The test results refer only to the subjects of testing. The publication of the results in extracts is subject to the approval of the Institut für Lacke und Farben Magdeburg gGmbH.