

MIL-RPR-22019D

Test Report No. 5543/05

Testing of a VCI film according to MIL-PRF-22019D

Client LOGIN EUROPE S.r.l.
 41012 Italy

Content of the order

Samples of VCI film were supplied to the BFSV by the client on February 15, 2005.

Description: „VCI 2000 film“

The following characteristics of the VCI film were tested according to MIL-PRF-22019D:

- Compatibility with copper
- Vapor inhibitor ability (VIA)
- Contact corrosivity
- Blocking resistance

Summarizing result

The tested characteristics of the „VCI 2000 film“ fulfill the requirements of MIL-PRF-22019D.

The table in Appendix 1 compares the results of the individual tests with the requirements of MIL-PRF-22019D.

Date : March 03, 2005
Pages : 2
Appendix : 1
Official in Charge: Dipl.-Ing. W. Reimers

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The accreditation applies to the test methods listed in the annex to the certificate.

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Tests performed

The „VCI 2000 film“ was tested in accordance with:

MIL-PRF-22019D

„PERFORMANCE SPECIFICATION;
BARRIER MATERIALS, TRANSPARENT, FLEXIBLE, SEALABLE, VOLATILE
CORROSION INHIBITOR TREATED“
Edition: 14 July 2004

- Compatibility with copper
(Test method according to MIL-PRF-22019D)
- Vapor inhibitor ability (VIA)
(Test method 4031 procedure B according to FED-STD-101)
- Contact corrosivity
(Test method 3005 according to FED-STD-101, test surfaces: steel and aluminium)
- Blocking resistance
(Test method 3003 according to FED-STD-101)

Director of the Institute

Official in Charge

Prof. Dr. H. Kontry

Dipl.-Ing. W. Reimers

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Appendix 1 to Test Report No. 5543/05

Test results according to MIL-PRF-22019D

LOGIN EUROPE S.r.l.; "VCI2000 Film"

Characteristics	Requirements	Test Results
Compatibility with copper	No pitting, etching or discoloration of vapor exposed copper surface, discount attacks within 1/16 inch of specimen	As required
Vapor inhibitor ability (VIA)	No corrosion, etching, or pitting of the steel panel's polished surface	As required (see below)
Contact corrosivity (test surfaces: steel and aluminium)	No corrosion, etching, or pitting	As required
Blocking resistance	No blocking, delamination, or rupture	As required

Vapor inhibitor ability (VIA):

	Steel panels			
	Control panel (without VCI)	Protected panels with „VCI 2000 film“		
Evaluation				
Corrosion symptoms	Corrosion on the entire surface	All three steel panels: No visible corrosion		

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