

FINAL REPORT

Determining the Resistance of Paint Films and related Coatings to Fungal
Defacement by Accelerated Four-week Agar Plate Assay

TEST AGENT:

DC315 Water Base Fireproof Paint

Study start date
07/24/06

Study Completion Date
08/22/06

Laboratory Number
80520

Testing Lab:

ACCUGEN LABORATORIES, INC.
50 West 75th Street Ste 209
Willowbrook, IL 60527

Sponsor
International Carbide Technology Co., Ltd.
No.1-17, Toa-Chan, 12 Ling
Kern-Ko Village, Lu-Chu Hsiang, Taoyuan 338, Taiwan

Contact: Ms.Amanda Chiou
Tel 886-3-3240001 (Ext.111)
Fax 886-3-3240006
E.mail: market@incatech.com.tw

Final Report: Determining the Resistance of Paint Films and related Coatings to Fungal Defacement by Accelerated Four-week Agar Plate Assay ASTM D5590

Test agent: DC315 Water Base Fireproof Paint Lab NO. 80520 Page 3 of 4

Testing Lab: Accugen labs www.accugenlabs.com Sponsor: INCA Tech

- *Patato Dextrose Agar (PDA) or Malt Agar*
- *Nutrient-Salts Agar*
- *Nutrient- Salts Solution*
- *Counting chamber*
- *Sterile Deionized Water*

Exposure Time: 4 weeks

Device(s) used for preconditioning of specimens: Paint brush.

STUDY DATES AND FACILITIES

The laboratory phase of this test was performed at ACCUGEN LABORATORIES, INC from 07/24/06 to 08/22/06..

RECORDS TO BE MAINTAINED

All testing data, protocol, protocol modifications, test material records, the final report, and correspondence will be stored in the archives.

REFERENCES

ASTM D 5590 Determining the Resistance of Paint Films and related Coatings to Fungal Defacement by Accelerated Four-week Agar Plate Assay

RESULTS

Lab #: 80520
 TEST AGENT: DC315 Water Base Fireproof Paint
 Date: 08/22/06
 Incubation conditions : 28⁰ C with 85 to 90 % humidity
 Time of exposure: 4 weeks
 Fungal species used: - *Aspergillus niger* ATCC # 6275
 - *Penicillium funiculosum* ATCC # 11797
 - *Aureobasidium pullulans* ATCC # 9348

Challenge Microorganism	Microorg. Cfu/ml	Dates	Microorganisms recovered In Blank (no paint)	Microorganisms recovered From paint samples	Fungal Defacement
<i>Aspergillus niger</i> ATCC # 6275 & <i>Penicillium</i>	2 x 10 ⁶	08/01/06	4	0	No Defacement
		08/08/06	4	0	No Defacement
		08/15/06	4	0	No Defacement
		08/22/06	4	0	No Defacement
<i>Aureobasidium pullulans</i> ATCC # 9348	11x10 ⁶	08/01/06	4	0	No Defacement
		08/08/06	4	0	No Defacement
		08/15/06	4	0	No Defacement
		08/22/06	4	0	No Defacement

DC315 Water Base Fireproof Paint was resistant to fungal growth and there was no fungal defacement observed.

 Rita Kazmi B.S (Biology)

 T. Naqvi M.S Microbiology, M(ASCP). Study Director