TEST REPORT

Fungi Resistance Measurement According to ASTM C1338

Product Identification: "KIMMCO Glass Wool Insulation – FSK Faced"

Produced By / Test Report Prepared For:

Kuwait Insulating Materials Manufacturing Co. S.A.K.
Mina Abdullah, Shuaiba Industrial Area
Area 1, Block 3, Plot 42, Wafra Road
65451 Kuwait. P.O.Box: 10042, Shuaiba

TEST REPORT NUMBER: RD22789

DATE OF REPORT: AUGUST 25, 2022

Stuart Ruis
President

R & D Services, Inc.
209 Tennessee Blvd.
P.O. Box 163
Watertown, Tennessee 37184
USA

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TEST REPORT PREPARED FOR
Kuwait Insulating Materials Manufacturing Co. S.A.K.
DATE OF TEST
July 22 – August 19, 2022
R&D SERVICES WORK ORDER NUMBER
2043W220705-004
R&D SERVICES PRODUCT NUMBERS
220714-006
MANUFACTURE DATE OF SPECIMEN
June 9, 2022

SAMPLE IDENTIFICATION

FSK faced glass wool insulation identified as "KIMMCO Glass Wool Insulation – FSK Faced."

SAMPLING INFORMATION

Samples were received by R&D Services, Inc. in Watertown, TN on July 14, 2022. No evidence of sampling was provided.

TEST METHOD

ASTM C1338-19, "Standard Test Method for Determining Fungi Resistance of Insulating Materials and Facings"

SUMMARY OF TEST RESULTS

No growth was observed on specimens.

CONDITIONING OF SPECIMEN

Specimens were conditioned for a minimum of 24 hours at 73 ± 4 °F (23 ± 2 °C), and 50 ± 5 % relative humidity before testing.

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TEST METHOD PROCEDURE

Evaluations for fungi growth are based on visual examinations at 40X magnification. The examinations at 40X magnification compare fungal growth on material being evaluated with the fungal growth on an untreated comparative material that was exposed to the same environment as the test specimens. Both the material and the comparative material (***white birch***) were inoculated with a mixed spore suspension containing five specific fungal species to start the test. Since most fungi thrive in a relatively narrow range of temperature and humidity, inoculated specimens and comparative materials were maintained within temperature and relative humidity ranges specified in the test method for the 28-day growth period. The fungal species used in the tests for thermal insulation are listed below.

Aspergillus niger	*ATCC 9642*
Aspergillus flavus	*ATCC 9643*
Aspergillus versicolor	*ATCC 11730*
Penicillium funiculosum	*ATCC 11797*
Chaetomium globosum	*ATCC 6205*

Each of the replicate test specimens shall be determined to have no fungal growth, fungal growth not greater than the comparative material, fungal growth the same as the comparative material, or fungal growth greater than the comparative material.

TEST RESULTS

	Viability	Control	Specimen 1	Specimen 2	Specimen 3
Day 7 Observation	2	2	1	1	1
Day 14 Observation	2	2	1	1	1
Day 21 Observation	2	2	1	1	1
Day 28 Observation	2	2	1	1	1
Test Result:	***PASS***				

Observation Scale:
1. No growth
2. Growth
3. Specimen has less growth than the comparative material
4. Specimen has same amount of growth as the comparative material
5. Specimen has more growth than the comparative material

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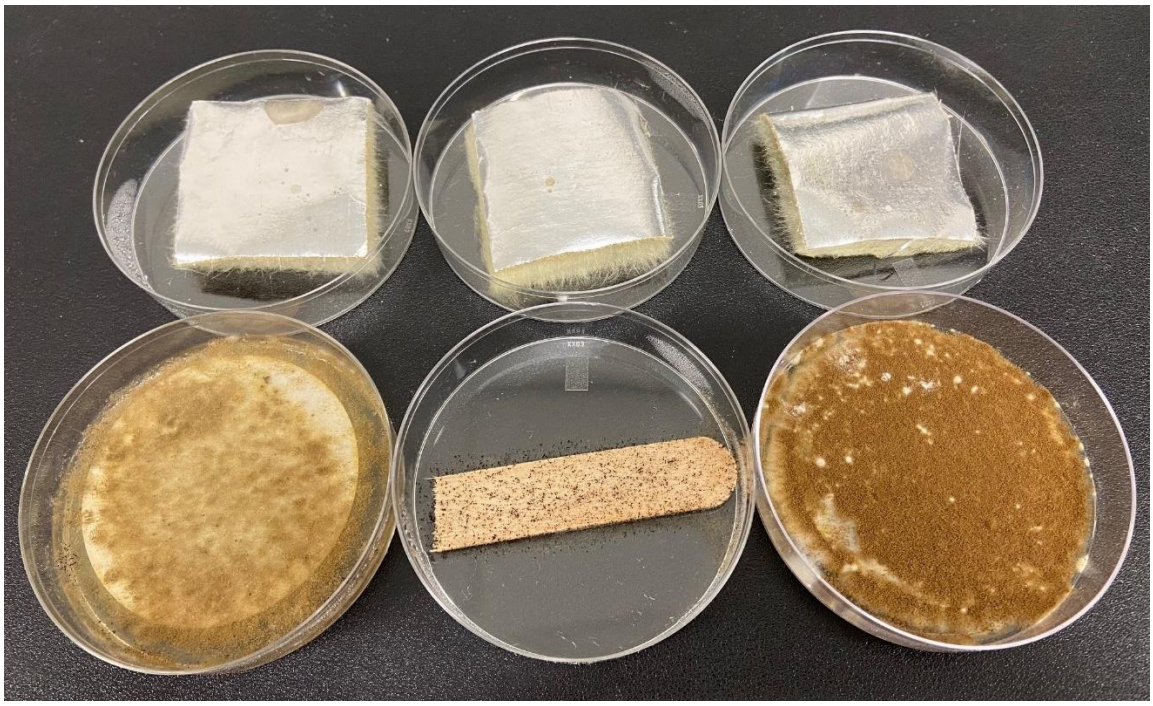


Figure 1. Specimens – After 28 Day Exposure

Reviewed By:

August 25, 2022
Date: