

Postal Address:
 PO Box 4282
 Dandenong South, Victoria 3164
 Australia

EWFA Test Report No.	56297900b.1	Page 1 of 2
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Report Sponsor	Issue Date
Knauf Insulation Pty Ltd 44 Borthwick Avenue, Murarrie. QLD 4712	11 th July, 2018

Test in accordance with AS/NZS 1530.1 - 1994

Objective
To determine the performance of the material samples as described in this report when subjected to the test conditions stated in the test standard referenced below.

Product	Knauf R2.7 Earthwool - Mineral Wool Insulation
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Test Reference	Reference Date
56297900b	4 th July, 2018

Test Method	Supplementary Standards
AS 1530.1:1994 Part 1: Combustibility test for materials	ISO 1182:2010

Product Description

The sponsor described the material as Knauf Earthwool, a mineral wool insulation to be used as wall insulation. The test sponsor declared the mineral wool as having an R value of 2.7. The test sponsor declared the insulation to have a thickness of 90mm. The material had a measured density of 24 kg m⁻³. EWFA personnel were not involved with the selection the test specimens, however, they prepared the specimens for testing. Before conducting these tests the test specimens were conditioned in a ventilated oven maintained at a temperature of 60±5°C for at least 20 and no more than 24 hours. Prior to conducting these tests the samples were cooled to room temperature in a desiccator.



TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd
Address	PO Box 4282 DANDENONG SOUTH VIC 3164 Unit 2, 409-411 Hammond Road DANDENONG VIC 3175
Phone	61 (0)3 9767 1000
ABN	81 050 241 524
Email / Home Page	www.exova.com
Authorisation	Prepared By:  E. Richardson
	Reviewed By:  A. Rosamilia

Test Results

Mean furnace temperature rise	5.5 °C
Mean specimen centre thermocouple temperature rise	23.8 °C
Mean specimen surface thermocouple temperature rise	6.1 °C
Mean duration of sustained flaming	0 seconds
Mean mass loss	7.6%

Observations

Flaming for approximately 2-3 seconds was observed for 3 of the specimens soon after the specimens were placed in the 750 °C oven, however, this was not long enough to be considered sustained flaming.

Criteria of Combustibility

Clause 3.4 of AS1530.1:1994 defines a combustible material as one for which; the duration of sustained flaming, as determined by summing the individual durations of flaming of 5 seconds or longer for all of the samples and dividing by five, is greater than zero, or the arithmetic mean of the temperature rise of the furnace thermocouple exceeds 50 °C or the arithmetic mean of the specimen surface thermocouple temperature rise exceeds 50 °C.

Comments

The material is NOT DEEMED COMBUSTIBLE according to the test criteria specified in Clause 3.4 of AS1530.1:1994.

An alternative suitable insulating material was used to fill the annular space between the furnace tubes, as specified in Clause 4.2 of ISO 1182:2010.

Conditions/Validity

This report may only be reproduced in full. Extracts or abridgements shall not be published without permission of Exova Warringtonfire Aus Pty Ltd.

The tests were performed at Exova Warringtonfire Aus Pty Ltd. These tests have been conducted in accordance with the test standard referenced above and this report should be read in conjunction with that standard.

This test report does not provide an endorsement by Exova Warringtonfire Aus Pty Ltd of the performance of the actual products supplied. These test results relate only to the behaviour of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

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EWFA Test Report No.	56297900a.1	Page 1 of 2
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Report Sponsor	Issue Date
Knauf Insulation Pty Ltd 44 Borthwick Avenue, Murarrie. QLD 4712	8 th July, 2018

Test in accordance with AS/NZS 1530.1 - 1994

Objective
To determine the performance of the material samples as described in this report when subjected to the test conditions stated in the test standard referenced below.

Product	Knauf R3.5 Earthwool - Mineral Wool Insulation
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Test Reference	Reference Date
56297900a	2 nd July, 2018

Test Method	Supplementary Standards
AS 1530.1:1994 Part 1: Combustibility test for materials	ISO 1182:2010

Product Description

The sponsor described the material as Knauf Earthwool, a mineral wool insulation to be used as ceiling insulation. The test sponsor declared the mineral wool as having an R value of 3.5. The test sponsor declared the insulation to have a thickness of 175mm. The material had a measured density of 9.5 kgm⁻³. EWFA personnel were not involved with the selection the test specimens, however, they prepared the specimens for testing. Before conducting these tests the test specimens were conditioned in a ventilated oven maintained at a temperature of 60±5°C for at least 20 and no more than 24 hours. Prior to conducting these tests the samples were cooled to room temperature in a desiccator.



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	Reviewed By:  A. Rosamilia

Test Results

Mean furnace temperature rise	6.4°C
Mean specimen centre thermocouple temperature rise	17.6°C
Mean specimen surface thermocouple temperature rise	8.1°C
Mean duration of sustained flaming	0 seconds
Mean mass loss	16.9%

Criteria of Combustibility

Clause 3.4 of AS1530.1:1994 defines a combustible material as one for which; the duration of sustained flaming, as determined by summing the individual durations of flaming of 5 seconds or longer for all of the samples and dividing by five, is greater than zero, or the arithmetic mean of the temperature rise of the furnace thermocouple exceeds 50°C or the arithmetic mean of the specimen surface thermocouple temperature rise exceeds 50°C.

Comments

The material is NOT DEEMED COMBUSTIBLE according to the test criteria specified in Clause 3.4 of AS1530.1:1994.

An alternative suitable insulating material was used to fill the annular space between the furnace tubes, as specified in Clause 4.2 of ISO 1182:2010.

Conditions/Validity

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