

CERTIFICATE

Material Fire Test Certificate

IGNL-5222-01-02C I02 R00

DATE OF TEST 30.09.2021
01.10.2021
ISSUE DATE 14.07.2026
EXPIRY DATE 13.07.2031

AS 1530.1:1994
Combustibility test for materials

SPONSOR
Unitex Australia Pty Ltd
22 Park Drive
Dandenong, VIC 3175

TEST BODY
Ignis Labs Pty Ltd
ABN 36 620 256 617
3 Cooper Place
Queanbeyan NSW 2620
Australia
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Test body is the test location



NATA Accredited Laboratory
Number: 20534 Site number: 24604
Accredited for compliance with
ISO/IEC 17025 - Testing

Specimen Identification

Unitex Redi Render

Specimen Description

The sponsor described the test specimen as a render material. It is composed of sand, cement, fillers, and flow and adhesion modifiers. It is grey in colour and its end use is as render. The specimens were fabricated by the sponsor.

The received specimens were a solid render material. They were speckled light grey in colour.

The test specimens are cylindrical, and each has:

(a) Nominal diameter (mm):	44.09
(b) Nominal height (mm):	50.20
(c) Nominal volume (cm ³):	76.61
(d) Nominal Mass (g):	117.75
(e) Colour:	Grey

Test Method

Five (5) specimens were tested in accordance with Australian Standard 1530 Methods for fire tests on building materials, components and structures, Part 1 – 1994: Combustible test for Materials. The test apparatus is constructed in accordance with the requirements of ISO 1182:2010 which has been verified to be equivalent to the apparatus requirements of AS 1530.1:1994 with the exception that a suitable alternative insulating material was used to fill the annular space between the furnace tubes, as specified in Clause 4.2 of ISO 1182:2010.

Observations

All the specimens exhibited similar behaviour, and none ignited during the test. After 60 minutes, the specimens had not reached equilibrium and the tests were stopped. The tops of the specimens were charred around the specimen holder. Specimen 4 had an initial specimen volume as 74.93 cubic centimetre, and had 77.50 cubic centimetre in pre-test fitness check.

Results

The specimen achieved the following results:

	Symbol	Arithmetic
Mean furnace thermocouple temperature rise:	ΔT_f	0.39 °C
Mean specimen centre thermocouple temperature rise:	ΔT_c	0.13 °C
Mean specimen surface thermocouple temperature rise:	ΔT_s	0.26 °C
Mean duration of sustained flaming:		0 s
Mean mass loss:		8.38 %

Combustibility

The specimens are NOT deemed COMBUSTIBLE according to the test criteria specified in Clause 3.4 of AS 1530.1-1994

Note

This second issue (IGNL-5222-01-02C I02 R00) cancels and replaces the first issue (IGNL-5222-01-02C I01 R00).



Test Supervisor
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Laboratory Engineer
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Version: IGNL-QF-031-Issue 03 Revision 01

Disclaimer These test results relate only to the behaviour of the test specimens 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. The information contained in this document is provided for the sole use of the recipient and no reliance should be placed on the information by any other person. In the event that the information is disclosed or furnished to any other person, Ignis Labs Pty Ltd accepts no liability for any loss or damage incurred by that person whatsoever as a result of using the information.

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SUMMARY OF MEASUREMENTS AND OBSERVATIONS OF SPECIMENS UNDER TEST

Parameter	Symbol or expression	Unit Symbol	Specimen Results				
			1	2	3	4	5
Atmospheric temperature	-	°C	21.40	21.60	21.10	20.04	22.50
Humidity	-	%RH	57.90	55.10	51.60	53.80	50.90
Height	h	mm	49.96	50.61	51.12	49.73	49.60
Diameter	d	mm	44.14	44.45	44.05	43.81	43.99
Initial specimen volume	V	cm ³	76.41	78.50	77.87	74.93	75.35
Initial specimen mass	msi	g	117.58	120.22	116.78	117.64	116.51
Density	r	kg/m ³	1538.78	1531.54	1499.74	1570.07	1546.39
Sample holder weight	w	g	15.58	15.42	15.36	15.80	15.80
Final specimen mass	msf	g	107.57	110.15	106.58	108.10	106.99
Mass loss	$\Delta m = (msi - msf) / msi * 100$	%	8.51	8.38	8.74	8.11	8.18
Total duration of sustained flaming	Cumulative total of duration of flaming	s	0.00	0.00	0.00	0.00	0.00
Initial furnace thermocouple temperature	Tfi	°C	749.00	751.40	749.60	749.60	752.50
Maximum furnace thermocouple temperature	Tfm	°C	747.70	749.00	747.90	752.10	757.20
Final furnace thermocouple temperature	Tff	°C	747.11	748.57	747.56	751.72	756.99
Furnace thermocouple temperature rise	$\Delta T_f = T_{fm} - T_{ff}$	°C	0.59	0.43	0.34	0.38	0.21
Maximum specimen centre thermocouple temperature	Tcm	°C	715.70	717.10	726.60	715.70	720.80
Final specimen centre thermocouple temperature	Tcf	°C	715.65	716.98	726.50	715.62	720.50
Specimen centre thermocouple temperature rise	$\Delta T_c = T_{cm} - T_{cf}$	°C	0.05	0.12	0.10	0.08	0.30
Maximum specimen surface thermocouple temperature	Tsm	°C	772.40	780.00	784.10	774.10	769.70
Final specimen surface thermocouple temperature	Tsf	°C	772.28	779.68	783.82	773.81	769.40
Specimen surface thermocouple temperature rise	$\Delta T_s = T_{sm} - T_{sf}$	°C	0.12	0.32	0.28	0.29	0.30
Test duration	t	min	60.00	60.00	60.00	60.00	60.00

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END OF TEST CERTIFICATE