

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400

## TEST REPORT

**Client :** Specialty Theatre Supplies  
40 Tennyson Street  
Williamstown VIC 3016

**Test Number :** 23-003441  
**Issue Date :** 8/09/2023  
**Print Date :** 25/09/2023  
**Order Number :** 9030

**Sample Description** Clients Ref : "230 gsm IFR Wool"  
Milled woven fabric  
Colour : Black  
End Use : Theatre Drapery  
Nominal Composition : Wool  
Nominal Mass per Unit Area/Density : 230g/m2  
Nominal Thickness : Approx. 1mm



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Accreditation Numbers: 983, 985, and 1356

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Fiona McDonald

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MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

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AS/NZS 1530.3-1999

### Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

Face tested:	Face		
Date tested:	08-09-2023		
	Standard Error	Mean	
Ignition time	Nil	Nil	min
Flame propagation time	Nil	Nil	sec
Heat release integral	Nil	Nil	kJ/m <sup>2</sup>
Smoke release, log d	0.0357	-1.0848	
Optical density, d		0.0837	/ metre
Number of specimens ignited:		0	
Number of specimens tested:		6	
Regulatory Indices:			
Ignitability Index		0	Range 0-20
Spread of Flame Index		0	Range 0-10
Heat Evolved Index		0	Range 0-10
Smoke Developed Index		4	Range 0-10

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The reaction of thin unsupported flexible materials to flame impingement can be assessed in accordance with AS 1530.2. Where materials of thickness less than 2mm that are sufficiently flexible to be bent by hand around a mandrel of 2mm diameter or less are subjected to the test described herein, they should also be subjected to the test in AS 1530.2.

Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test.

To allow free movement of sample during testing all corners were folded away from the clamps.

The specimens were mounted to simulate use in an unsupported or free hanging mode. The results may be significantly different when mounted to simulate a wall cladding or upholstery application.

Each test specimen was sandwiched between two layers of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions, stapled through at four points, each 100mm from the centre of the sample and the assembly clamped in four places.

These results only apply to the specimen mounted, as described in this report. The result of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

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**Test Number :** 23-003442  
**Issue Date :** 08/09/2023  
**Print Date :** 25/09/2023

**Sample Description** Clients Ref : "230 gsm IFR Wool"  
Milled woven fabric  
Colour : Black  
End Use : Theatre Drapery  
Nominal Composition : Wool  
Nominal Mass per Unit Area/Density : 230g/m2



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**AS/NZS 3837-1998** Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 08-09-2023  
Operator AWTA Test Operator 9  
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	7.1	6.4	6.1	6.5	kW/m <sup>2</sup>
Average Specific extinction area	74.7	60.2	61.8	65.6	m <sup>2</sup> /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	18	19	17	18	sec
Test duration	199	200	198	199	sec
Peak heat release after ignition	38.6	45.0	41.7	41.8	kW/m <sup>2</sup>
Average heat at 60 s	17.4	14.7	15.7	15.9	kW/m <sup>2</sup>
Average heat at 180 s	7.1	6.4	6.1	6.5	kW/m <sup>2</sup>
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m <sup>2</sup>
Total heat released	1.3	1.2	1.1	1.2	MJ/m <sup>2</sup>
Average effective heat of combustion	3.0	2.4	2.3	2.6	MJ/kg
Initial thickness	7.7	7.7	7.7	7.7	mm
Initial mass	87.3	85.8	86.7	86.6	g
Mass remaining	83.8	81.9	82.8	82.8	g
Mass percentage pyrolysed	4.0	4.6	4.6	4.4	%

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Mass loss	0.4	0.5	0.5	0.5	kg/m <sup>2</sup>
Average rate of mass loss	2.4	2.7	2.6	2.6	g/m <sup>2</sup> .s
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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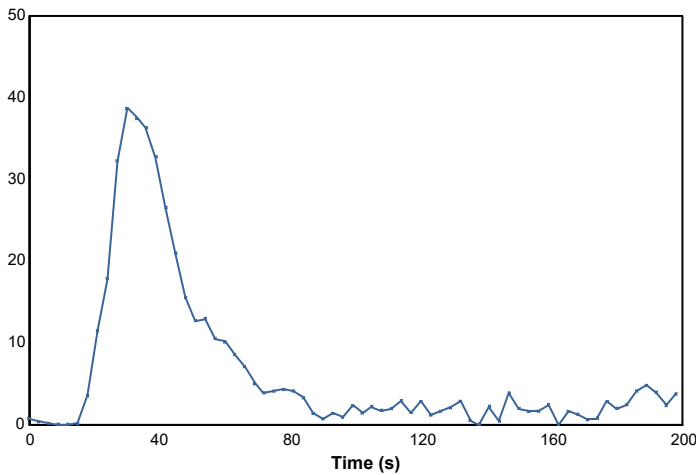
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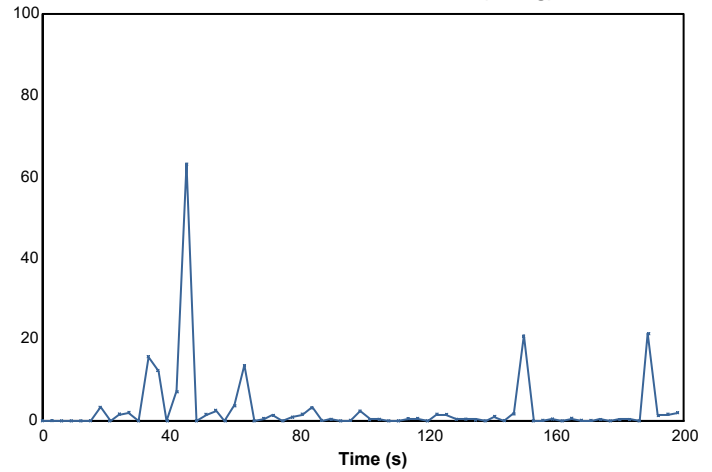
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**Issue Date :** 08/09/2023  
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**Specimen :** 1

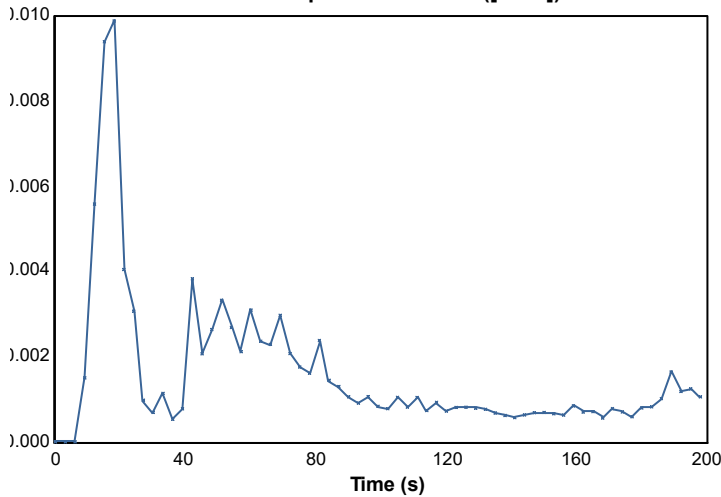
**Heat release rate (kW/m<sup>2</sup>)**



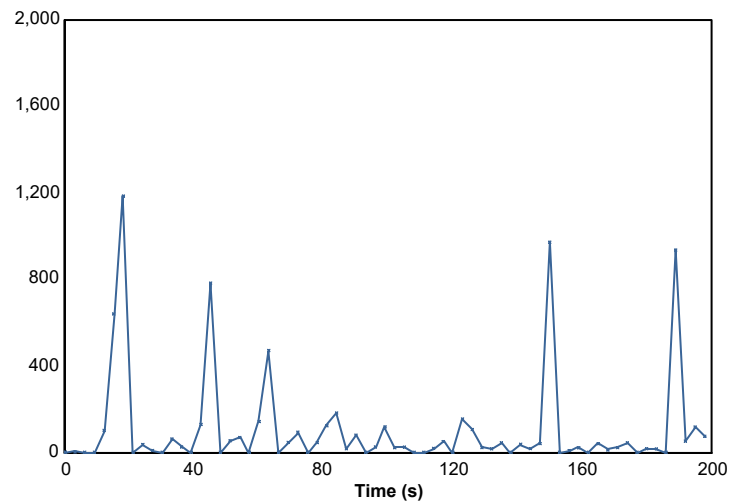
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>2</sup>/s])**



**Specific extinction area (m<sup>2</sup>/kg)**



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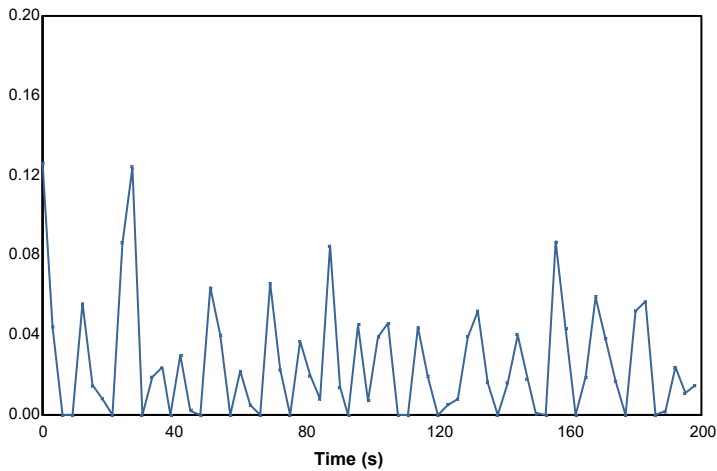
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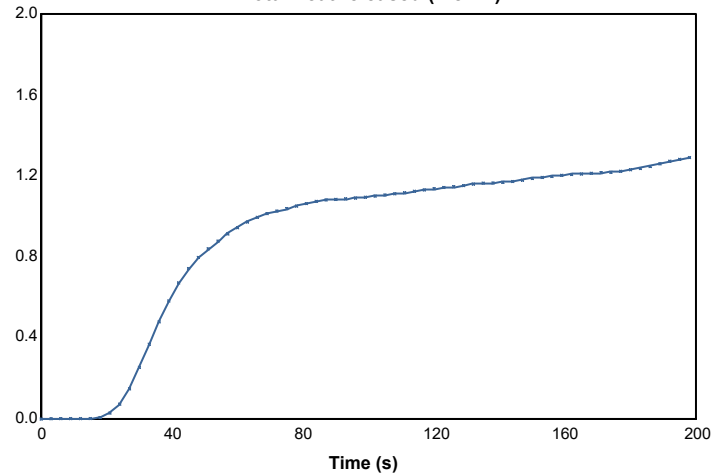
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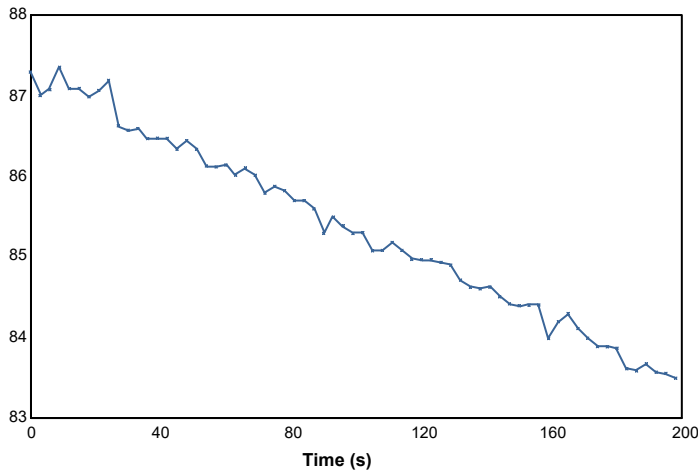
Mass loss rate (g/s)



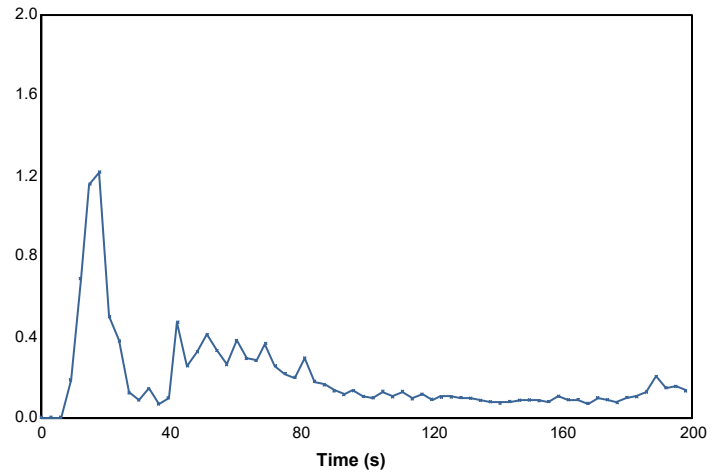
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s)/m<sup>2</sup>)



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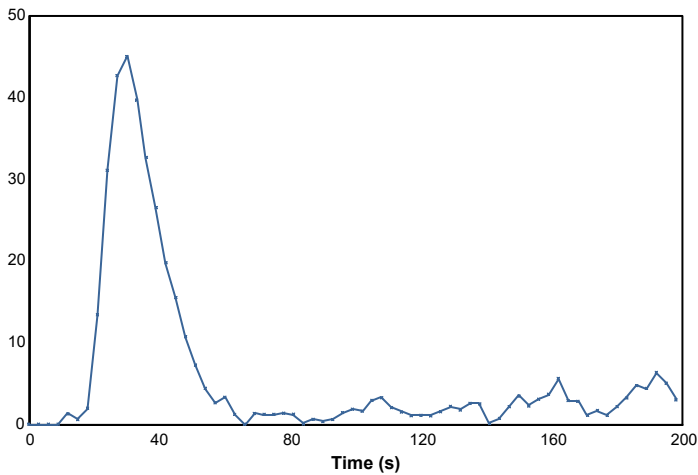
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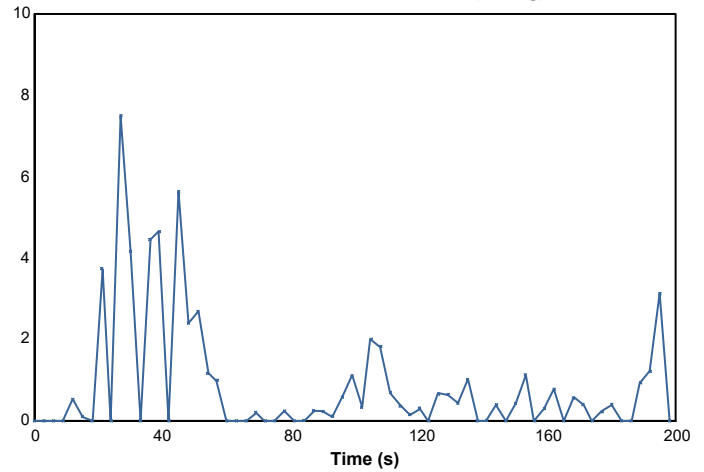
**Test Number :** 23-003442  
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**Specimen :** 2

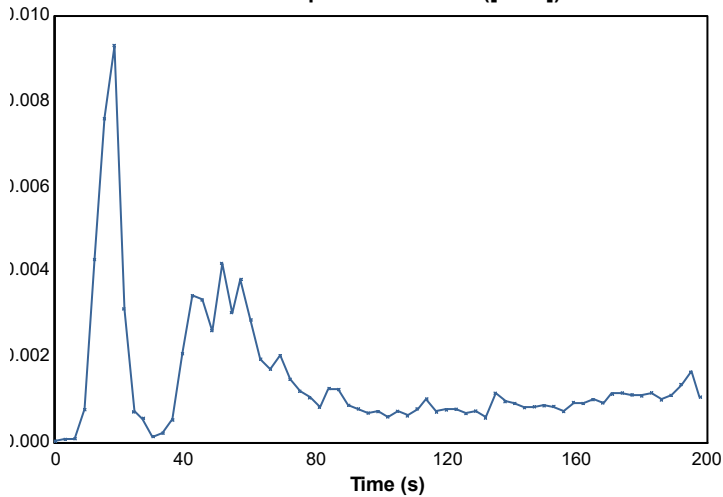
**Heat release rate (kW/m<sup>2</sup>)**



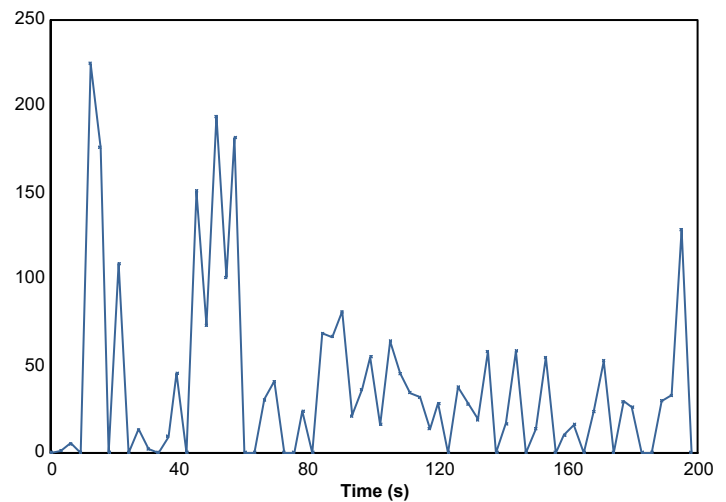
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>2</sup>/s])**



**Specific extinction area (m<sup>2</sup>/kg)**



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