



## No. 1272389.6

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 19.3.19

SAMPLE DESCRIPTION:  
Black woven fabric – Centennial  
Nominal Composition – 95% Wool 5% Nylon  
Nominal Weight – 590g per lineal metre  
End Use – Upholstery & Screen Use

Client Order No.:

Client Reference:

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### ISO 5660.1-2015 - Reaction to Fire Tests – Heat release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Note: This test was sub-contracted (test number 19-001533).

	Specimens			Mean
	1	2	3	
Average Heat Release	14.9	18.4	14.9	16.1 kW/m <sup>2</sup>
Average Specific Extinction Area	32.1	32.9	30.3	31.7 m <sup>2</sup> /kg
Group Number Classification (In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				3


Test Orientation: Horizontal

	Specimens			Mean
	1	2	3	
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> /sec.
Time to Sustained Flaming	14	13	14	14 sec.
Test Duration	1814	1813	1814	1814 sec.
Peak Heat Release After Ignition	192.4	194.6	181.6	189.5 kW/m <sup>2</sup>
Average Heat at 180 s	61.1	71.8	66.6	66.5 kW/m <sup>2</sup>
Average Heat at 300 s	53.1	62.7	58.1	58.0 kW/m <sup>2</sup>
Total Heat Released	27.0	33.2	26.9	29.0 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	13.1	16.9	14.1	14.7 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	81.5	82.4	81.1	81.7 g
Mass at Sustained Flaming	81.3	82.2	80.9	81.5 g
Mass Remaining	64.9	66.5	65.6	65.7 g
Mass Loss	2052.4	1965.4	1912.6	1976.8 g/m <sup>2</sup>
Average Rate of Mass Loss	1.1	1.1	1.1	1.1 g/m <sup>2</sup> .s

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Signatory

  
C Judan  
Signatory

08/05/2019

**New Zealand Wool Testing Authority Ltd**

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Total Smoke Production (non-flaming phase)	0.2	0.2	0.1	0.2 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (flaming phase)	68.7	66.2	61.4	65.4 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (non flaming & flaming phase)	68.9	66.4	61.5	65.6 m <sup>2</sup> /m <sup>2</sup>
Specimen Surface Area	0.00810	0.00810	0.00810	- m <sup>2</sup>
C-Factor (Calibration Constant)	0.03983	0.03983	0.03983	-

Additional Observation: 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 sole criterion for assessment of performance under real fire conditions.

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

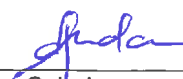
Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Note: All calculations are based on ignition + 30 minutes.

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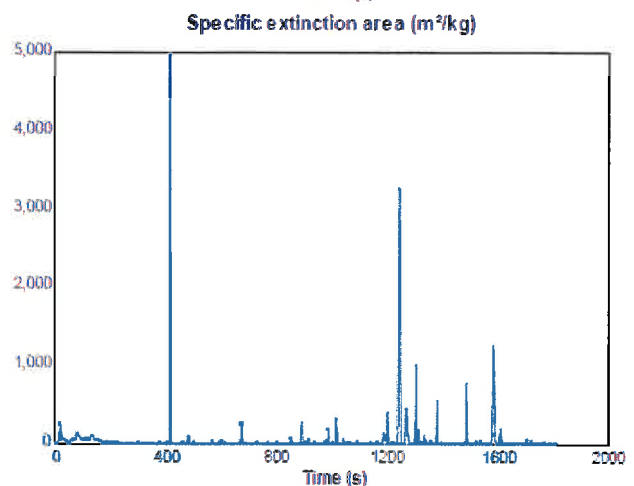
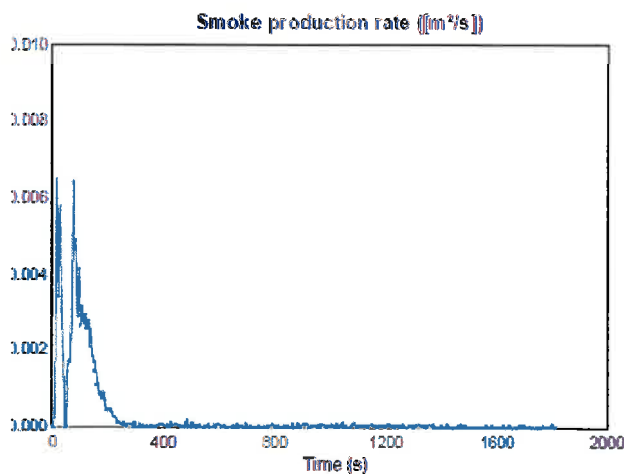
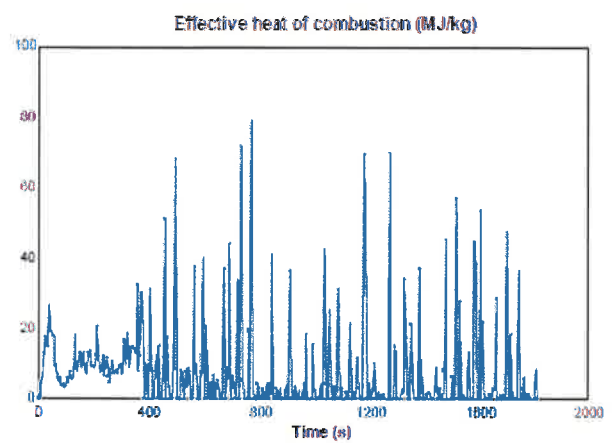
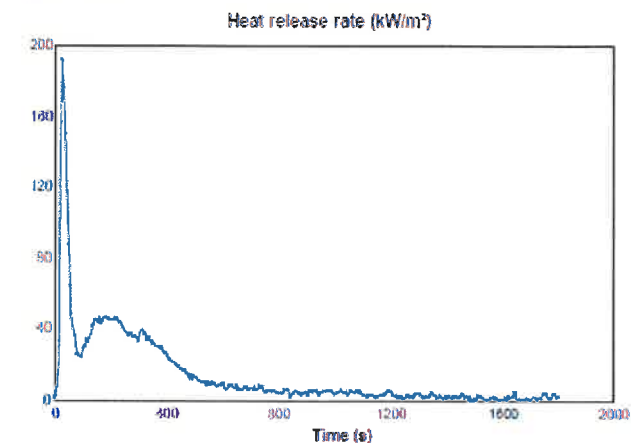
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Specimen: 1



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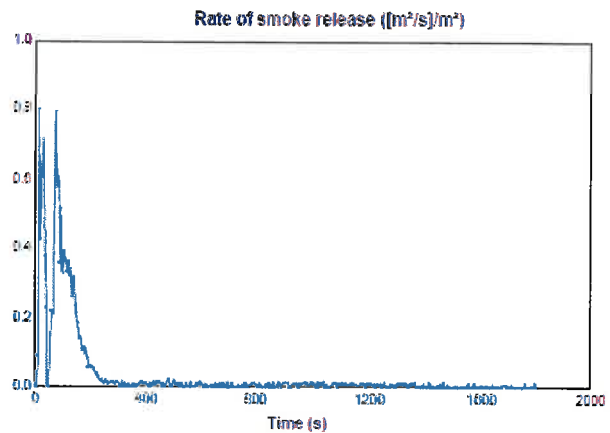
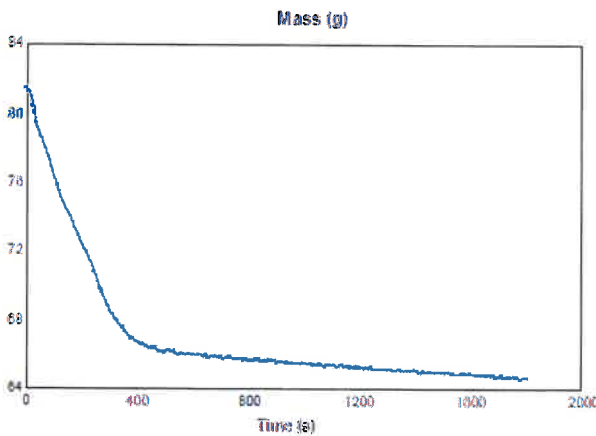
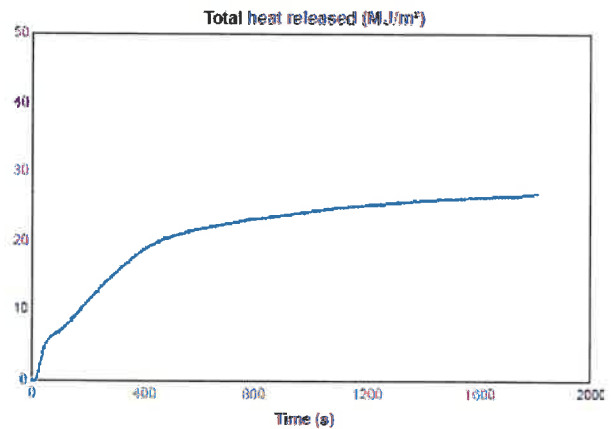
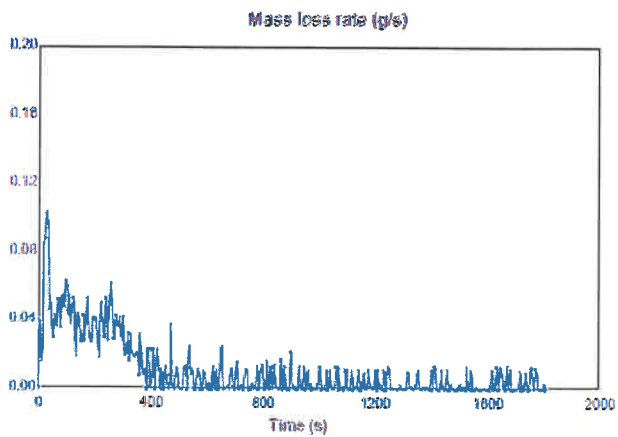
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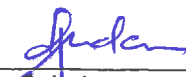
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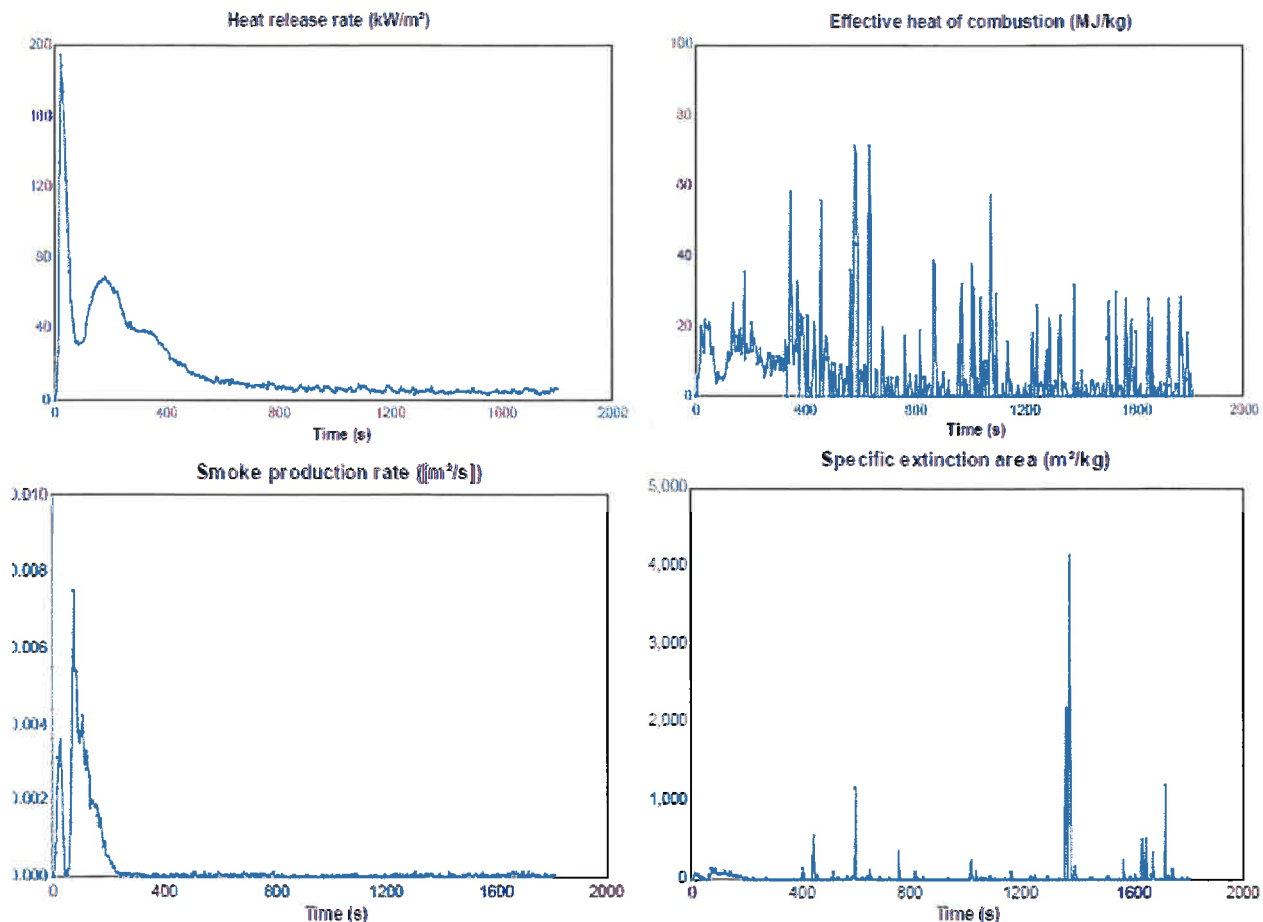
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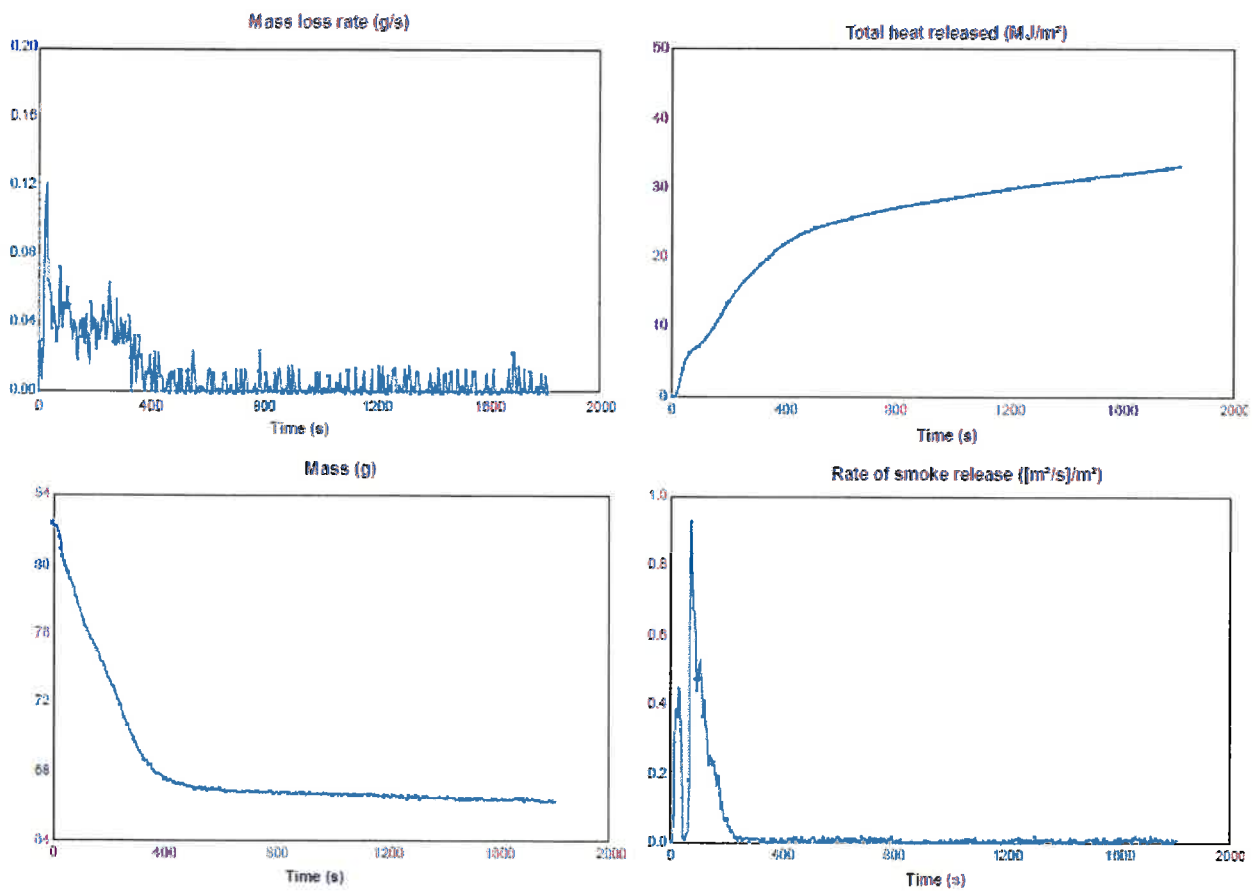
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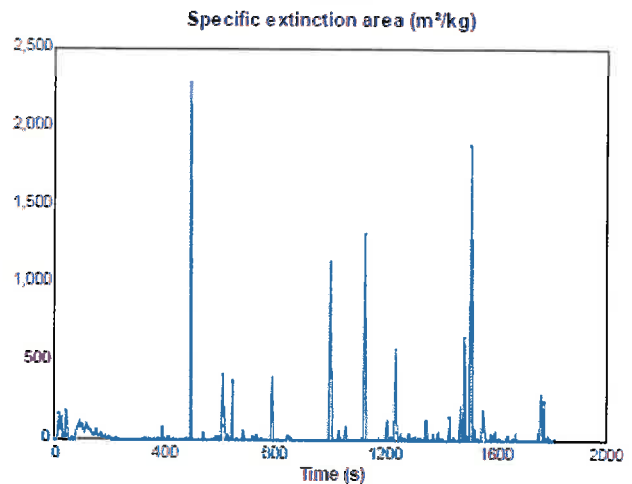
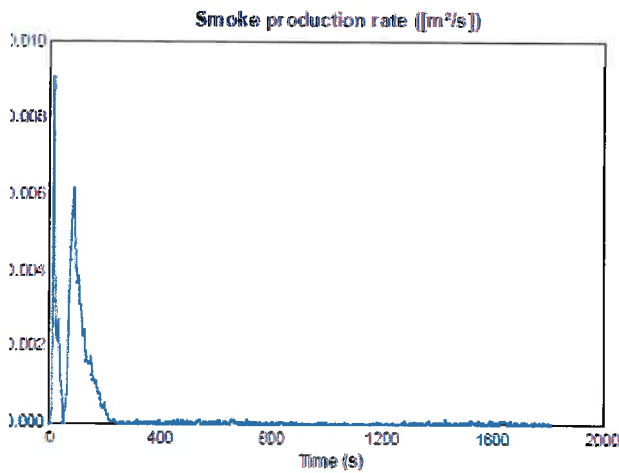
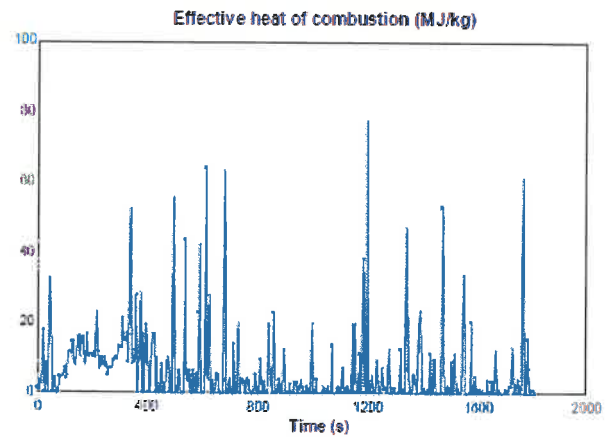
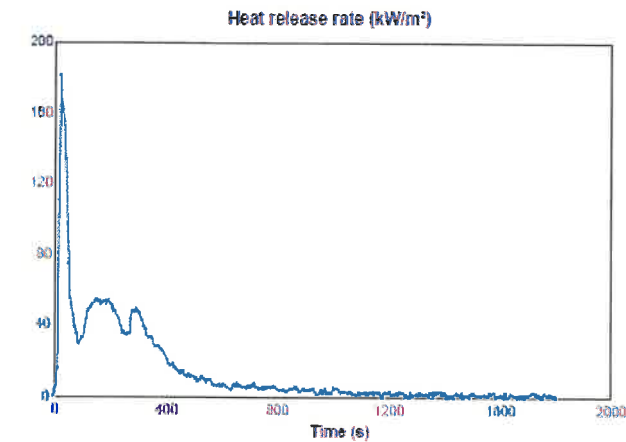
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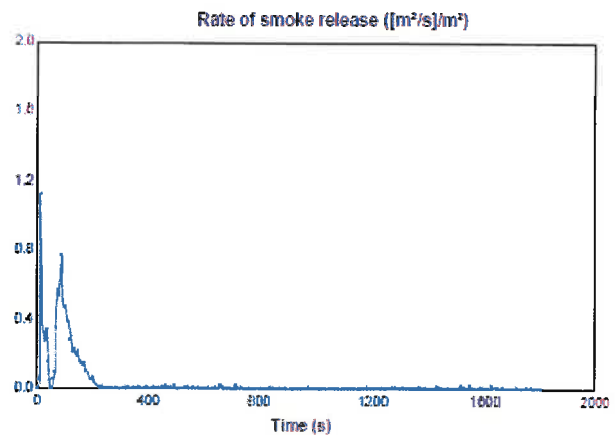
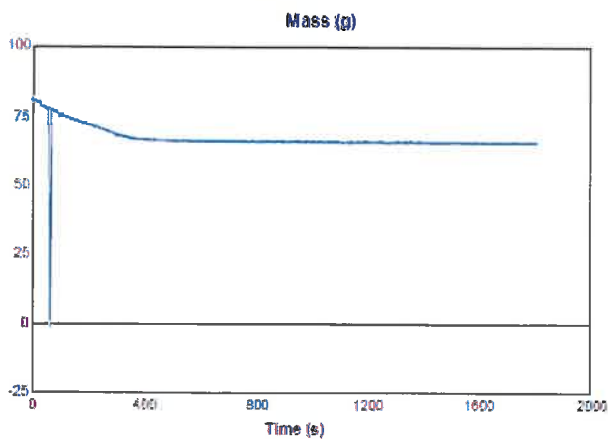
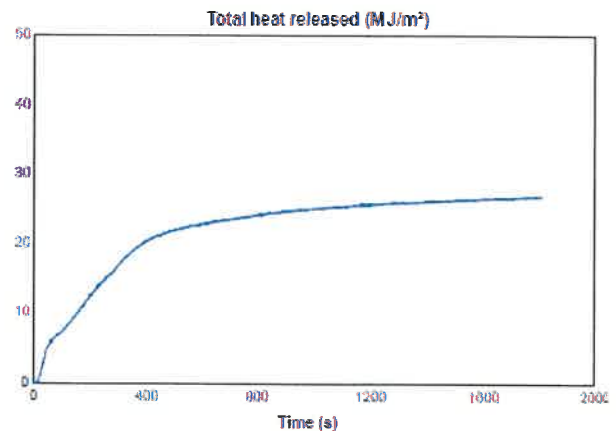
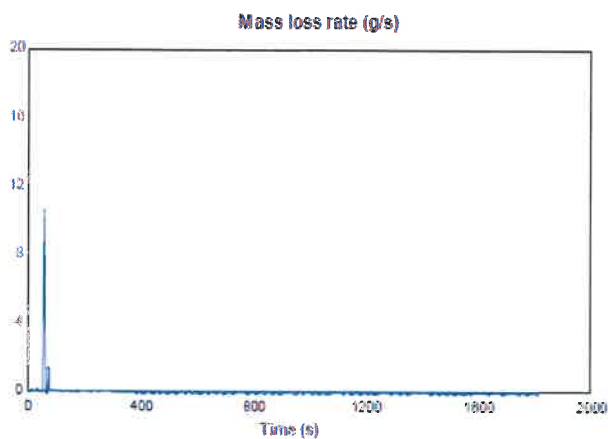
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