



## No. 1249972.9B

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 11.10.18

SAMPLE DESCRIPTION:  
Woven fabric – Carlow  
Nominal Composition – 100% Polypropylene  
Nominal Weight – 304 grams per lineal metre  
End Use – Panel & Screen

Client Order No.:

Client Reference:

1 of 8

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

Note: This test was sub-contracted (test no. 18-006129)


	Specimens			Mean
	1	2	3	
Average Heat Release:	32.3	34.3	34.9	33.8 kW/m <sup>2</sup>
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	49.5	83.6	49.9	61.0 m <sup>2</sup> /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)				1

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 L/sec.
Time to Sustained Flaming	32	36	26	31 sec.
Test Duration	293	283	320	299 sec.
Peak Heat Release After Ignition	105.3	109.8	109.5	108.2 kW/m <sup>2</sup>
Average Heat at 60 s	75.4	81.1	73.4	76.6 kW/m <sup>2</sup>
Average Heat at 180 s	42.4	41.9	47.7	44.0 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	8.4	8.4	10.1	9.0 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	6.8	7.1	8.1	7.3 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	85.1	76.0	80.1	80.4 g
Mass at Sustained Flaming	85.1	75.5	79.8	80.1 g
Mass Remaining	75.0	66.3	69.9	70.4 g
Mass Percentage Pyrolysed	11.9	12.8	12.8	12.5%
Mass Loss	1.2	1.2	1.3	1.2 kg/m <sup>2</sup>
Average Rate of Mass Loss	5.1	5.0	4.9	5.0 g/m <sup>2</sup> .s

Additional Observations None  
Difficulties Encountered During Testing None

L A Greer  
Signatory

  
G Judan  
Signatory

30/11/2018

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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.

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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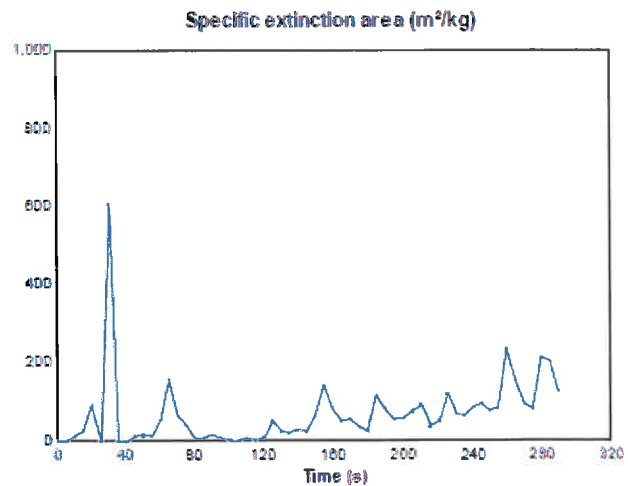
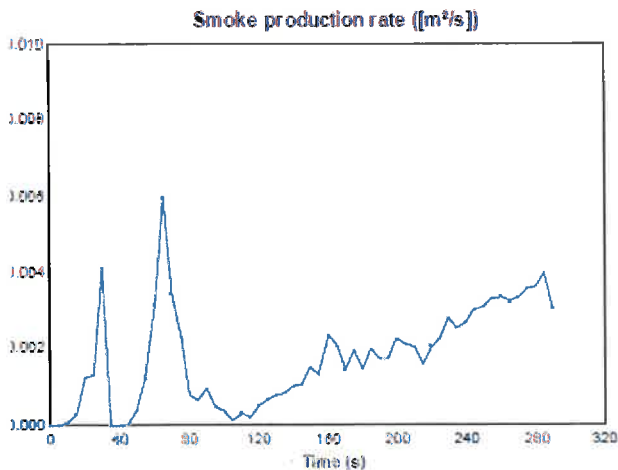
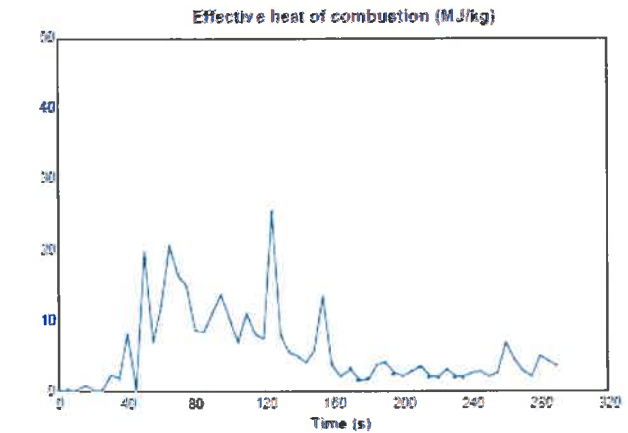
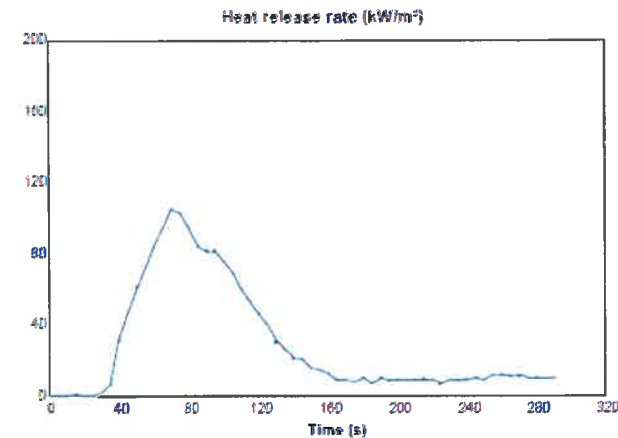
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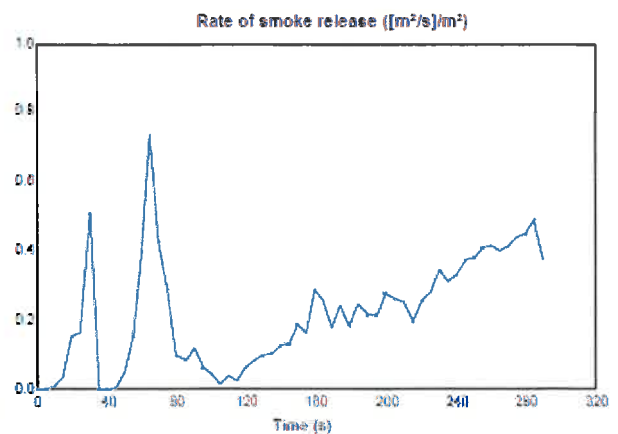
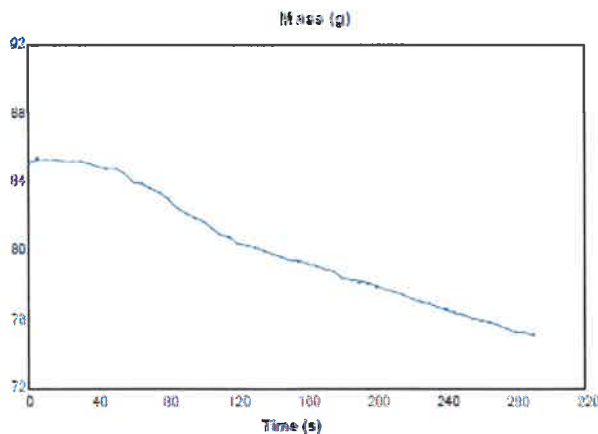
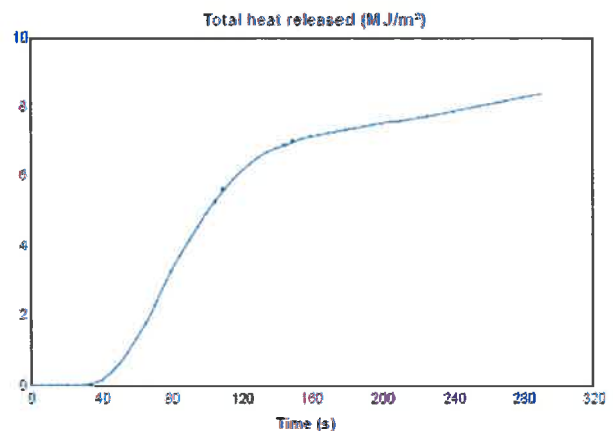
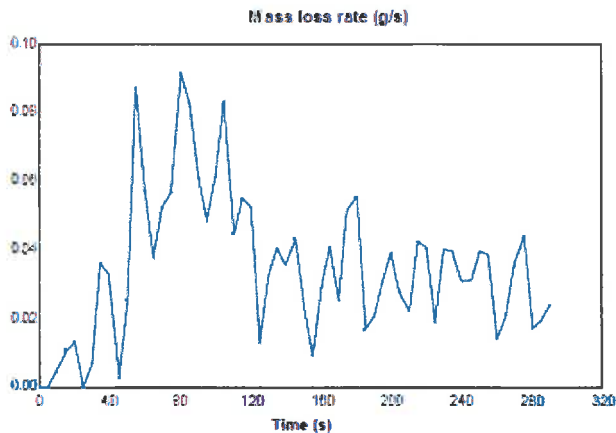
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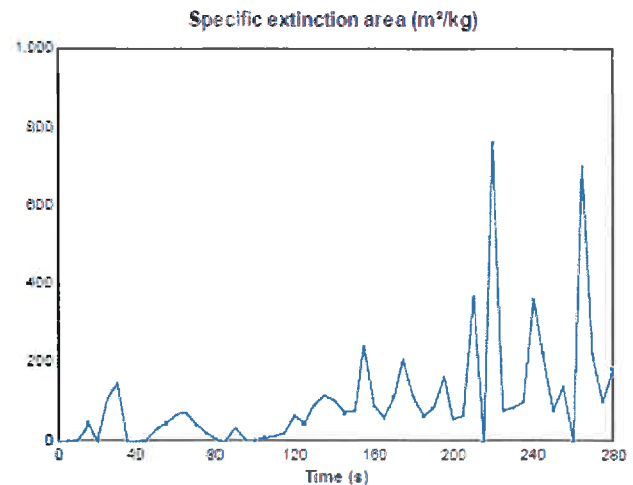
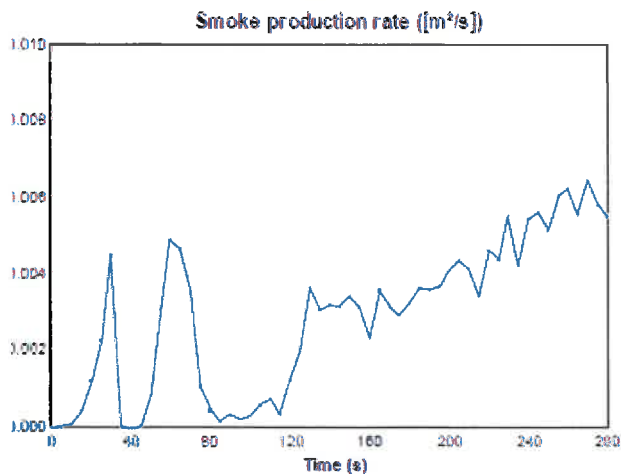
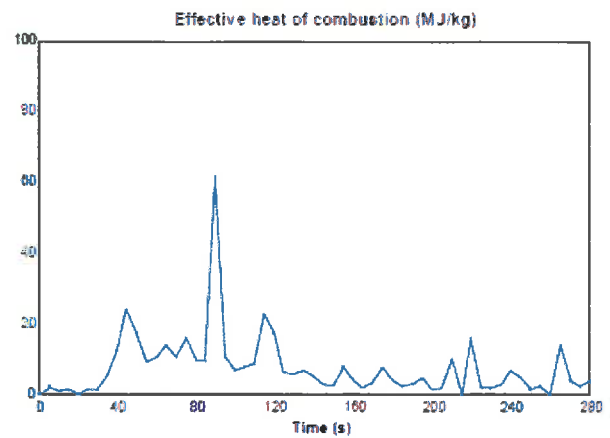
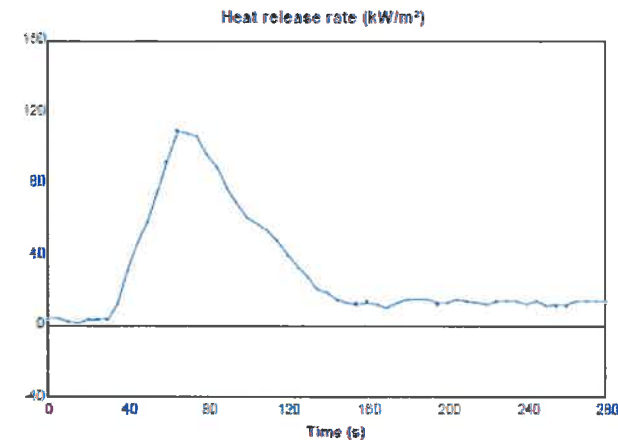
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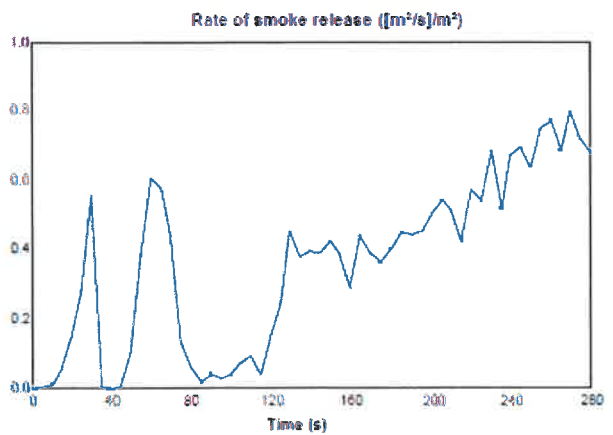
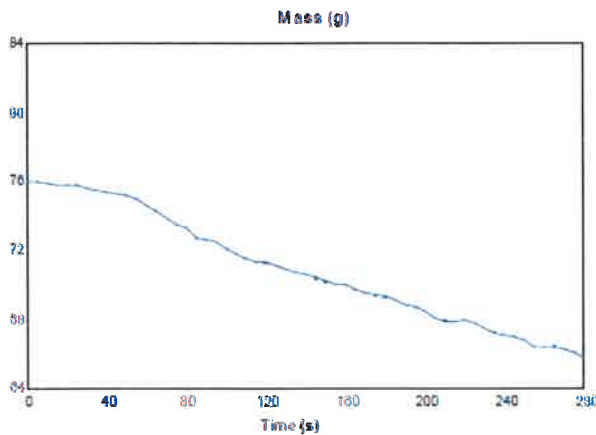
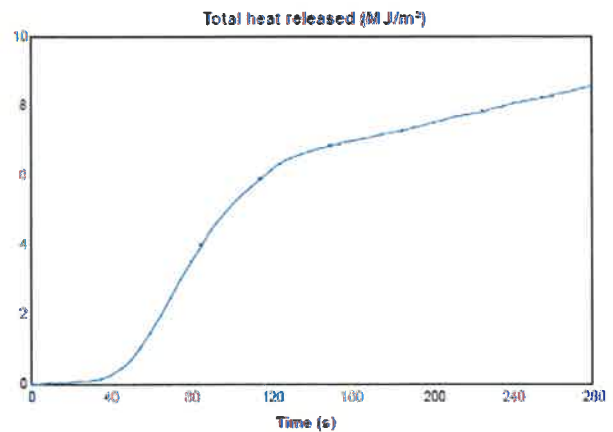
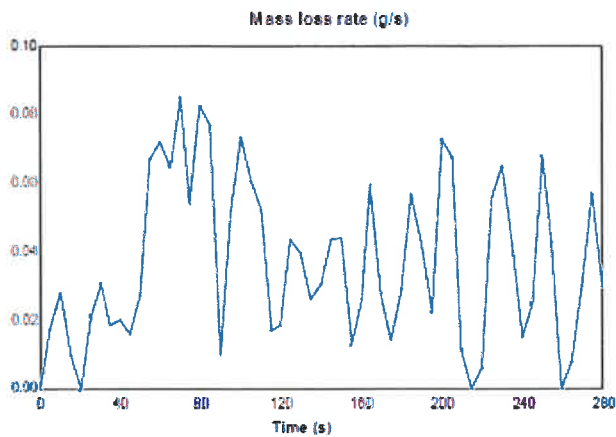
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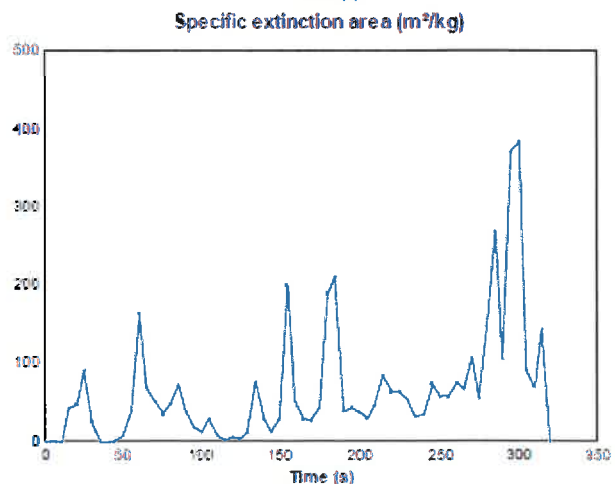
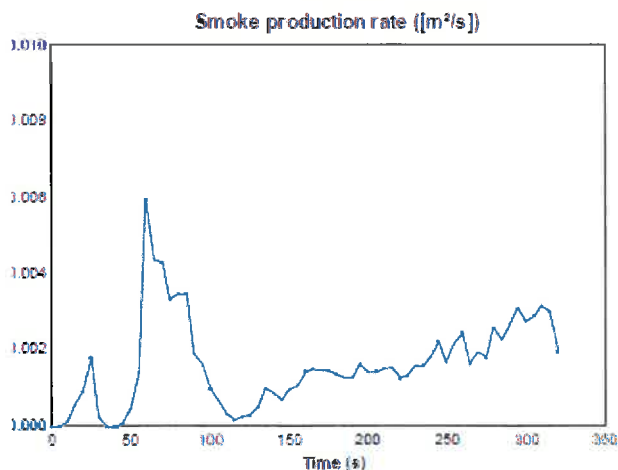
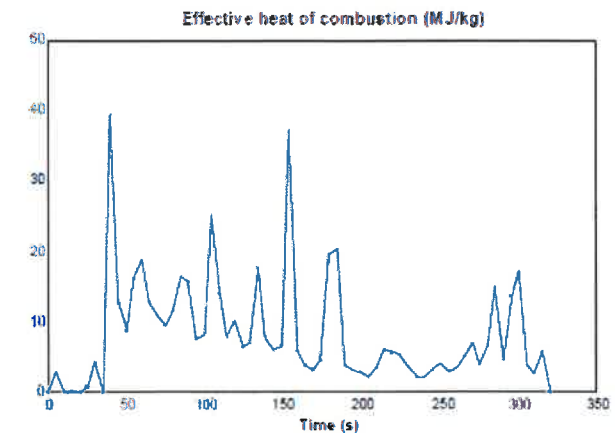
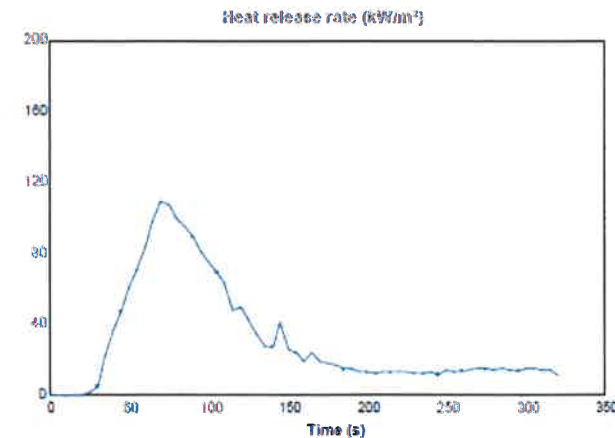
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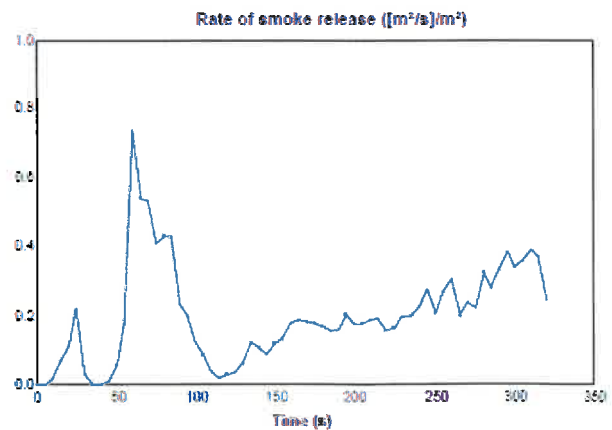
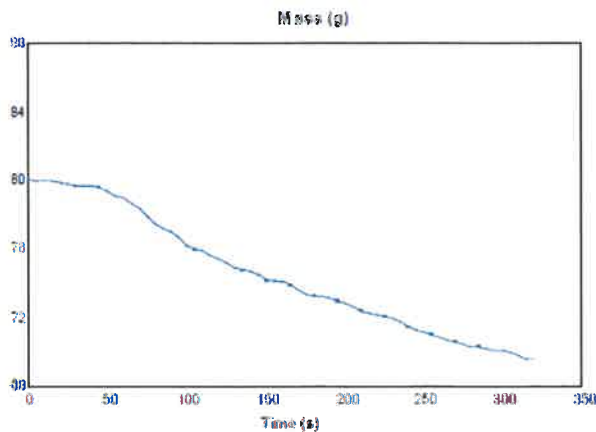
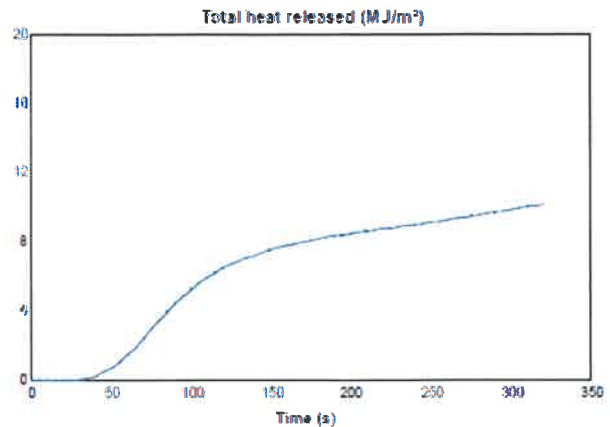
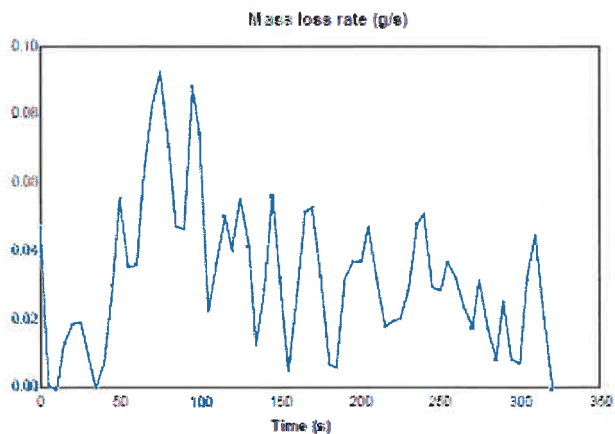
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