



## No. 1365268.0C

(Please quote this number in all correspondence)

CLIENT:  
Textilia Ltd.  
PO Box 37 378  
Parnell, Auckland

Attn.: Therese Ronalde

SAMPLE RECEIVED FROM:  
Textilia Ltd.

SAMPLE DESCRIPTION:  
Upholstery woven fabric – Kyoto Sumi  
Nominal Composition – 90% Wool 10% Polyamide  
Nominal Weight – 469 grammes per lineal metre

Date Received: 11.3.21

Client Order No.:

Client Reference:

1 of 15

### 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. 21-001260).

	Specimens						Mean
	1	2	3	4	5	6	
Average Heat Release Rate:	15.7	19.1	36.0	33.9	32.0	19.6	26.0 kW/m <sup>2</sup>
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	23.4	31.3	25.6	16.3	19.2	17.0	22.1 m <sup>2</sup> /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)							1

Test Orientation: Horizontal

	Specimens						Mean
	1	2	3	4	5	6	
Irradiance	50	50	50	50	50	50	50 kW/m <sup>2</sup>
Exhaust Flow Rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024 m <sup>3</sup> /s
Time to Sustained Flaming	115	89	27	28	32	99	65 sec.
Test Duration	296	270	238	259	255	280	266 sec.
Peak Heat Release After Ignition	55.6	65.9	141.7	137.9	129.6	77.7	101.4 kW/m <sup>2</sup>
Average Heat at 60 s	26.0	40.3	92.1	88.3	89.1	39.8	62.6 kW/m <sup>2</sup>
Average Heat at 180 s	15.7	19.1	39.8	40.2	36.6	19.6	28.5 kW/m <sup>2</sup>
Average Heat at 300 s	n/a	n/a	n/a	n/a	n/a	n/a	n/a kW/m <sup>2</sup>
Total Heat Released	2.8	3.4	7.8	7.8	7.2	3.5	5.4 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	3.4	3.5	6.2	6.3	5.5	3.9	4.8 MJ/kg
Initial Thickness	11	11	11	11	11	11	11 mm
Initial Mass	61.6	63.1	61.4	61.5	60.3	61.4	61.6 g
Mass Remaining	54.9	55.0	51.5	51.4	49.8	54.0	52.8 g
Mass Percentage Pyrolysed	10.9	12.9	16.2	16.4	17.5	12.1	14.3 %
Mass Loss	0.8	1.0	1.2	1.2	1.3	0.9	1.1 kg/m <sup>2</sup>
Average Rate of Mass Loss	4.6	5.4	5.8	5.4	5.7	5.0	5.3 g/m <sup>2</sup> .s

Additional Observations: None  
Difficulties Encountered During Testing: None

L A Greer  
Signatory

  
C Judan  
Signatory

12/04/2021

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New Zealand Wool Testing Authority Ltd

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Ahuriri, Napier 4144, New Zealand

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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 10mm thick plasterboard 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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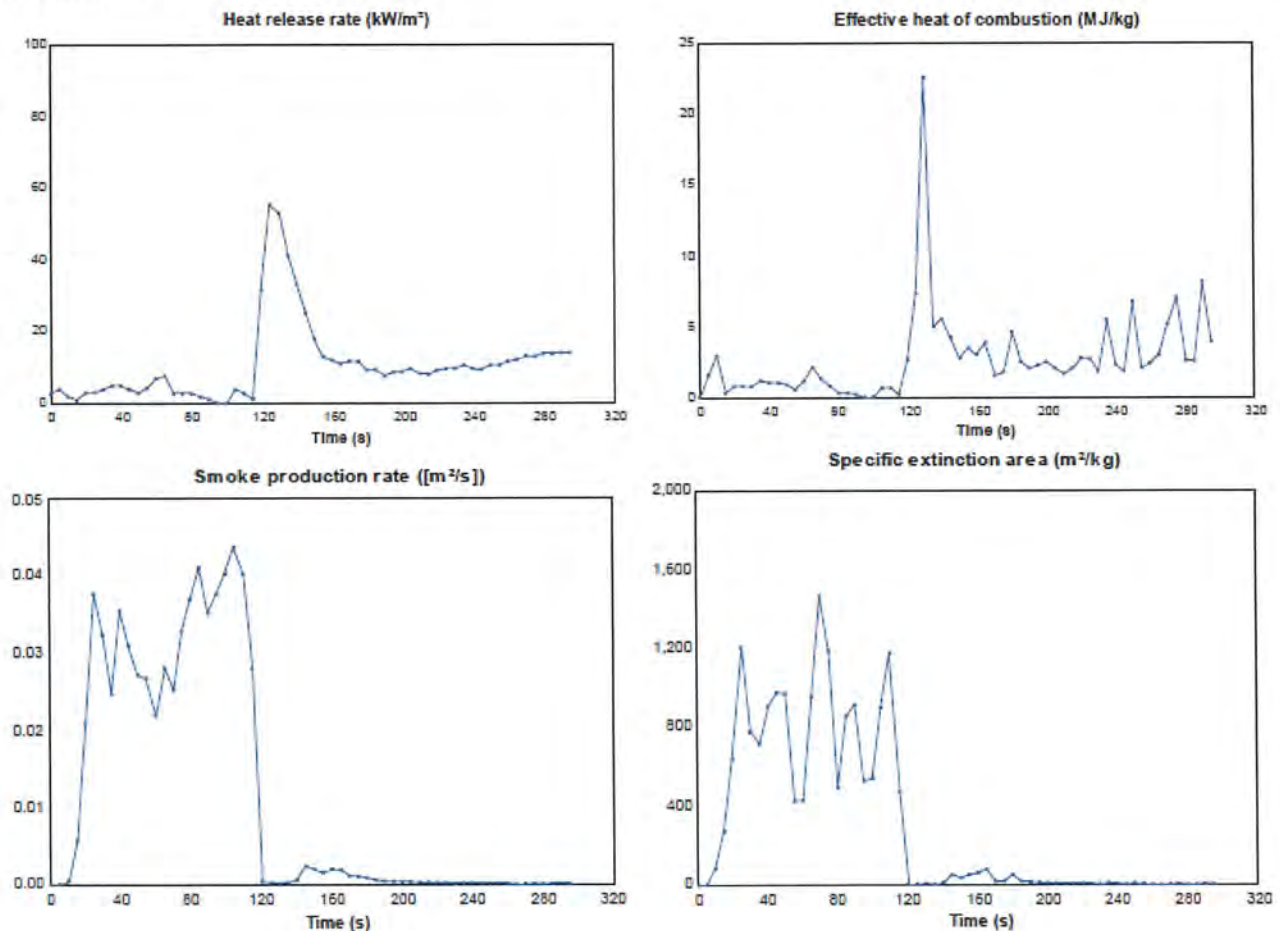
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Specimen : 1



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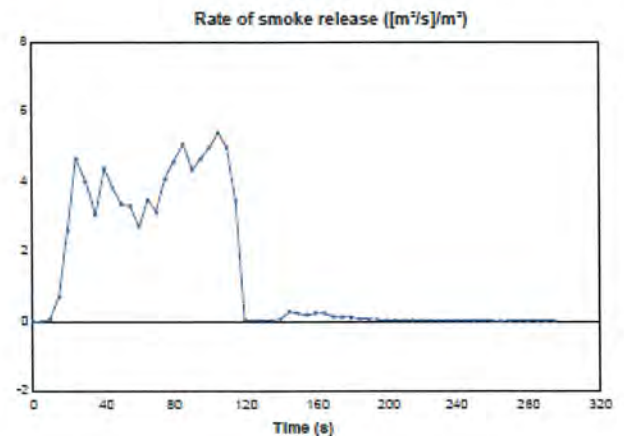
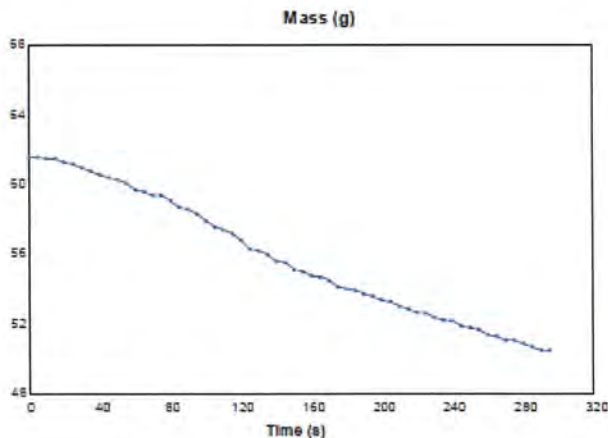
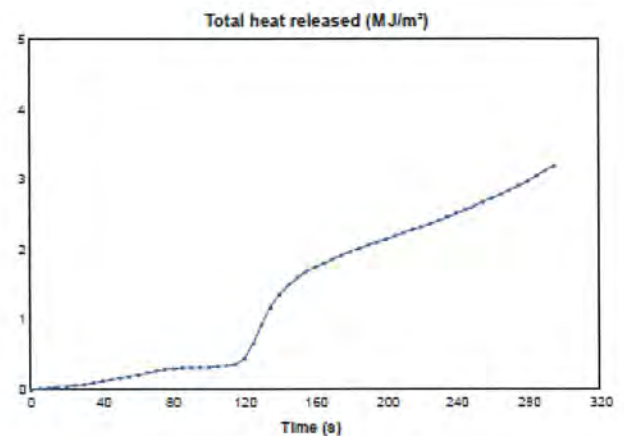
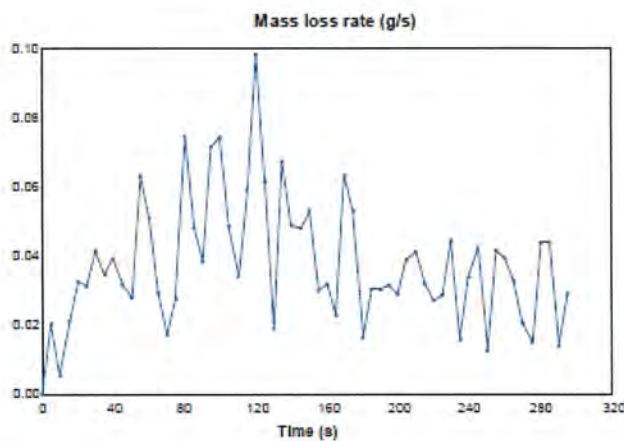
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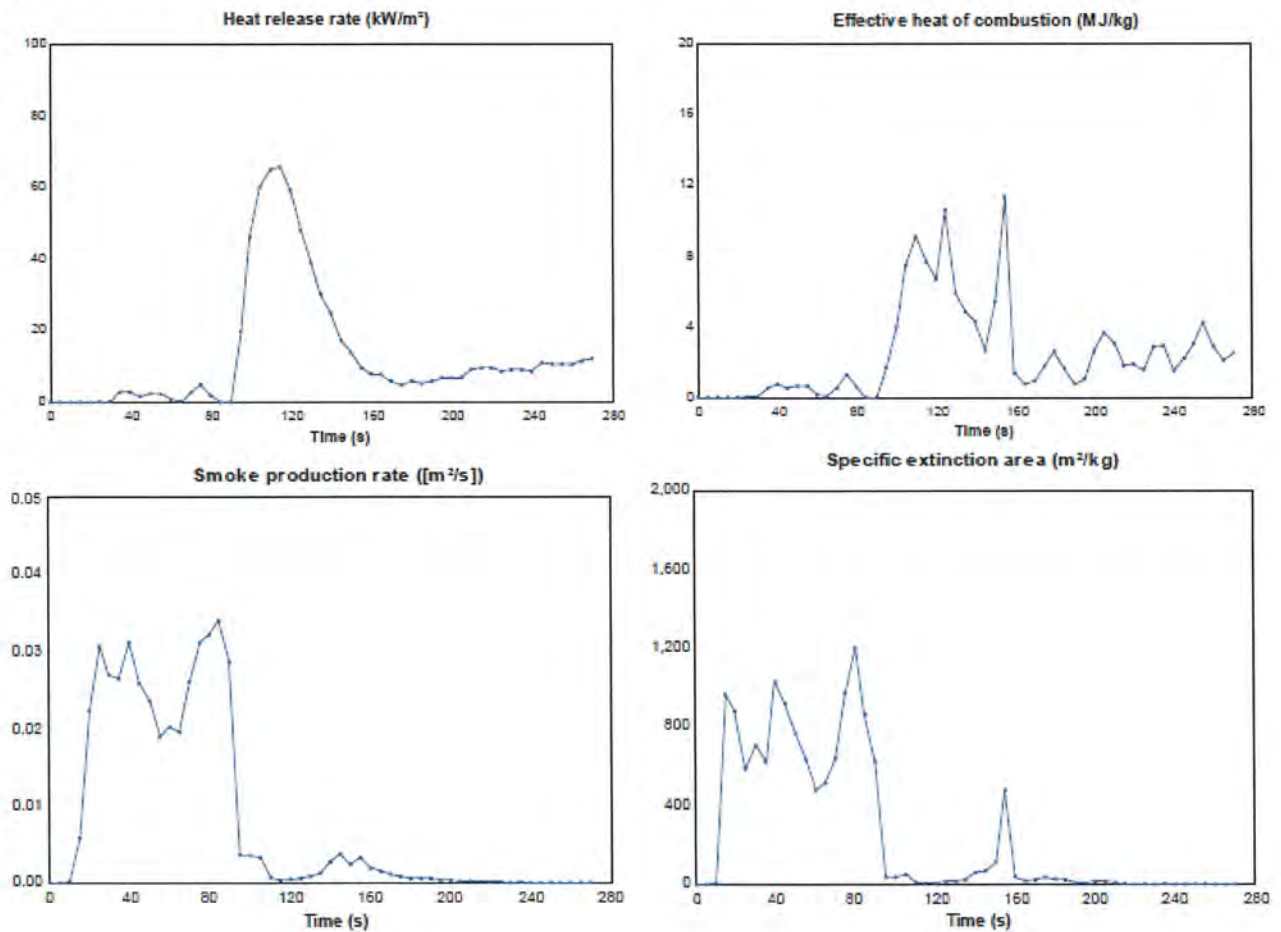
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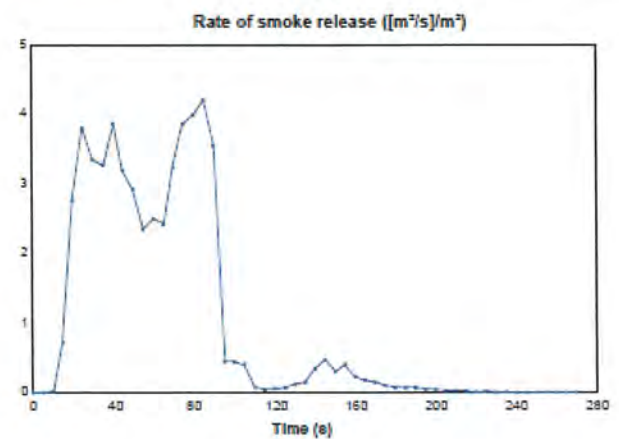
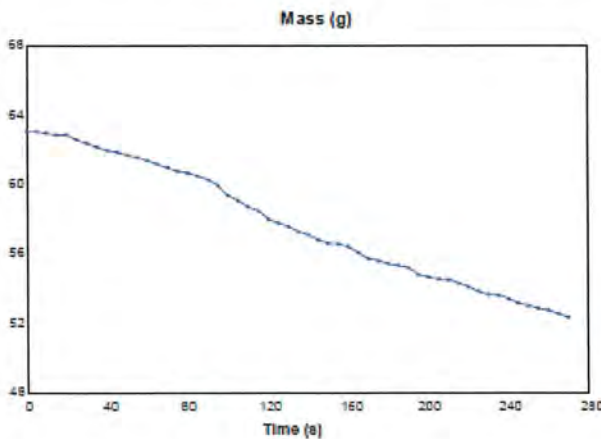
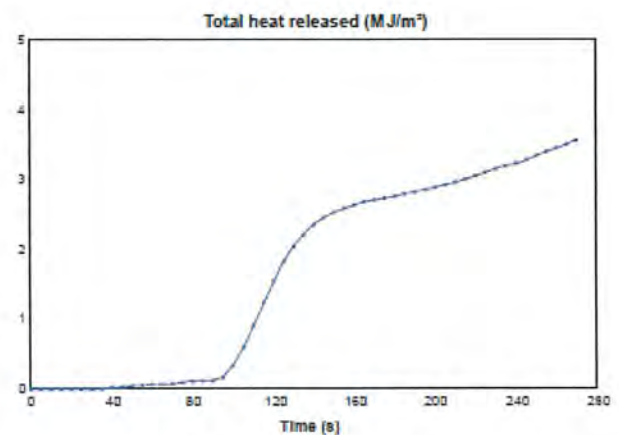
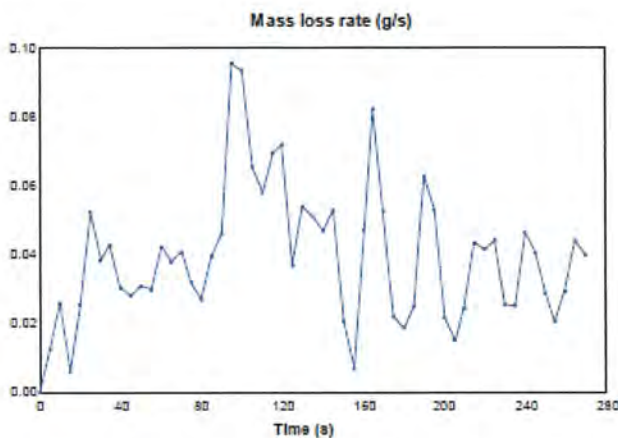
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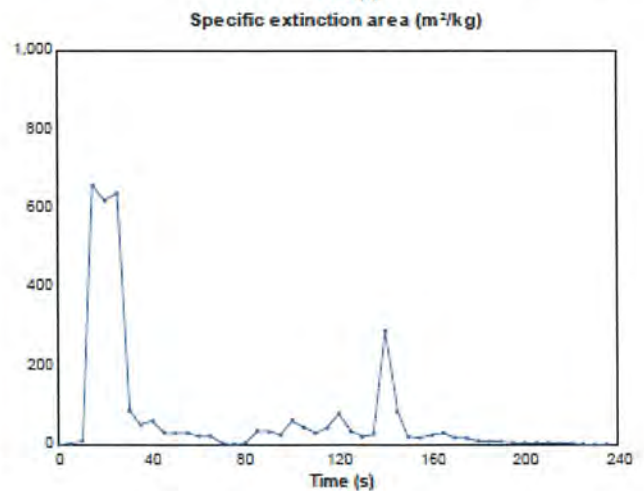
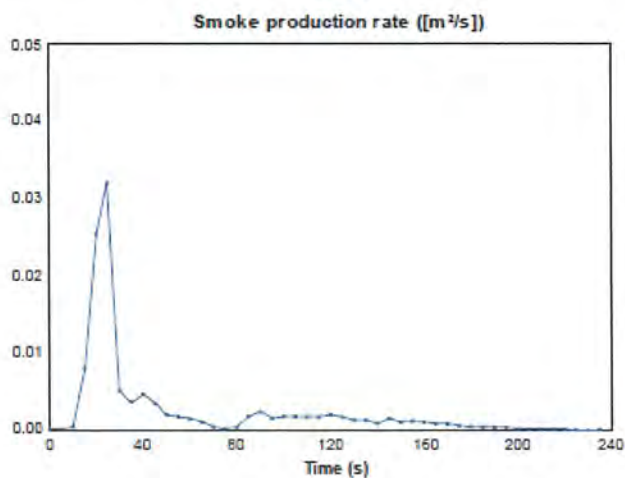
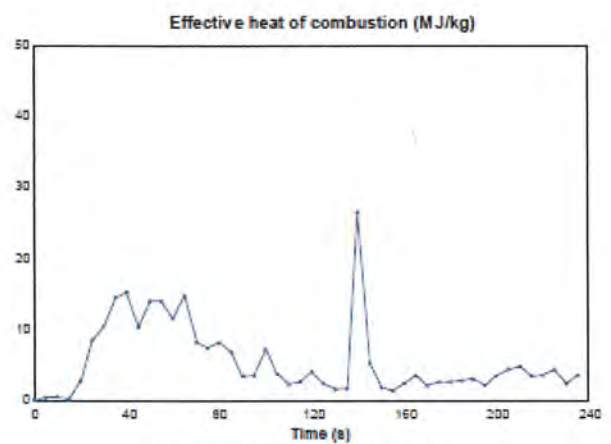
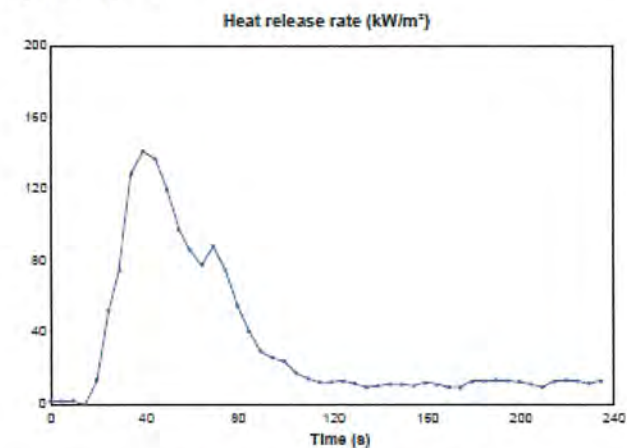
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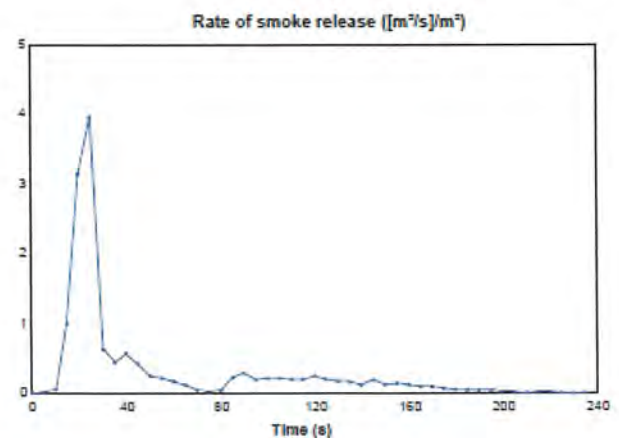
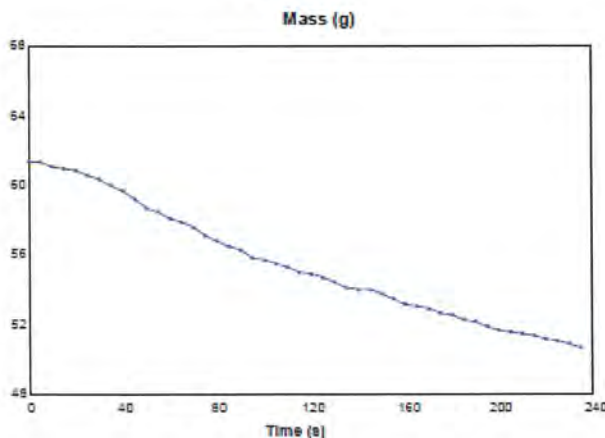
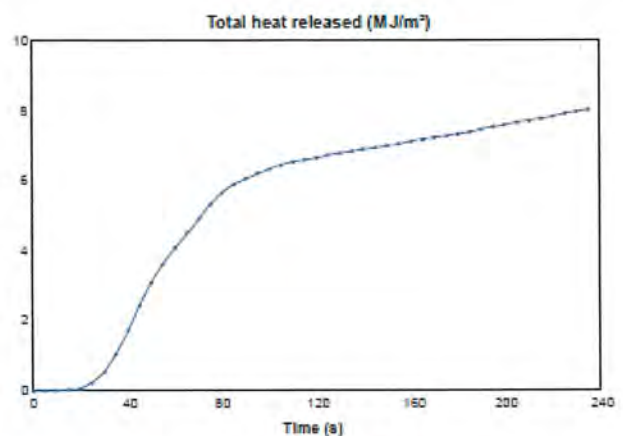
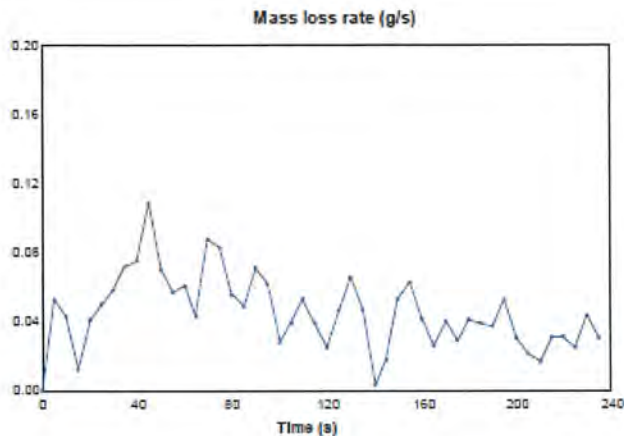
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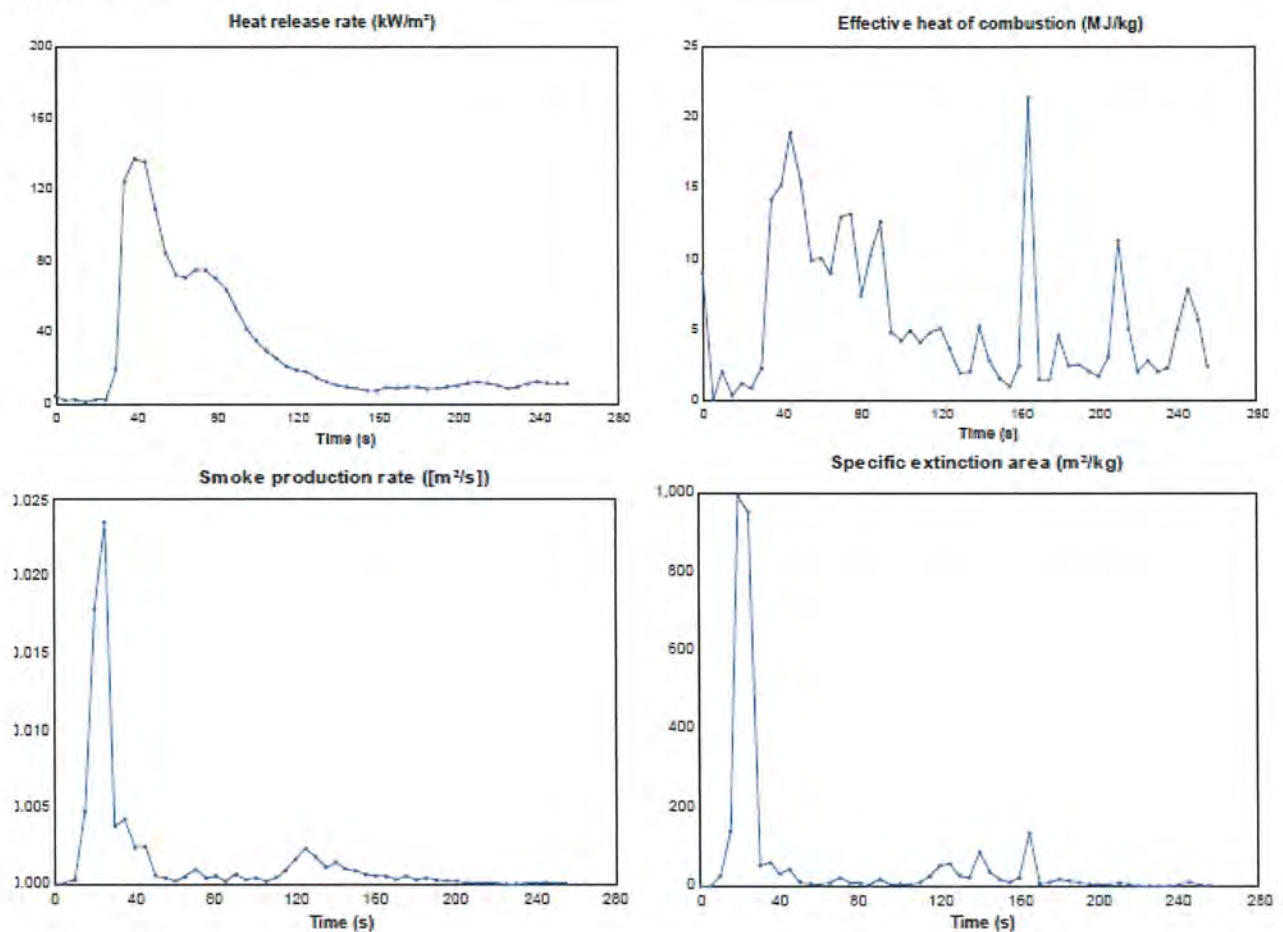
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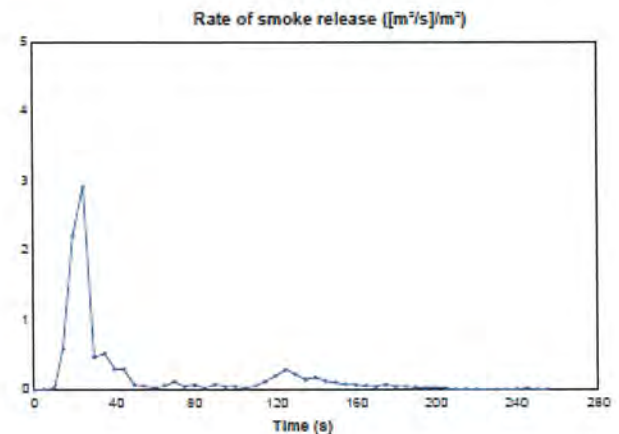
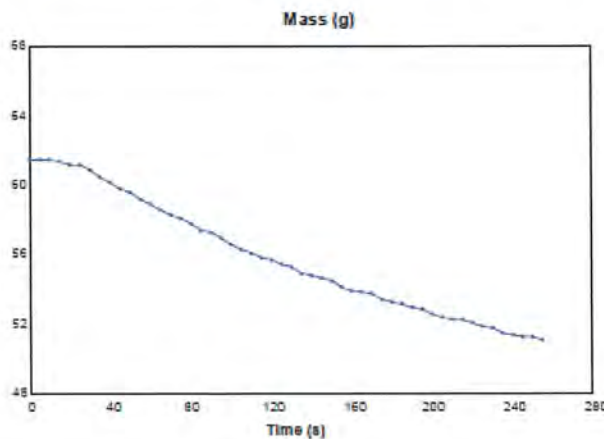
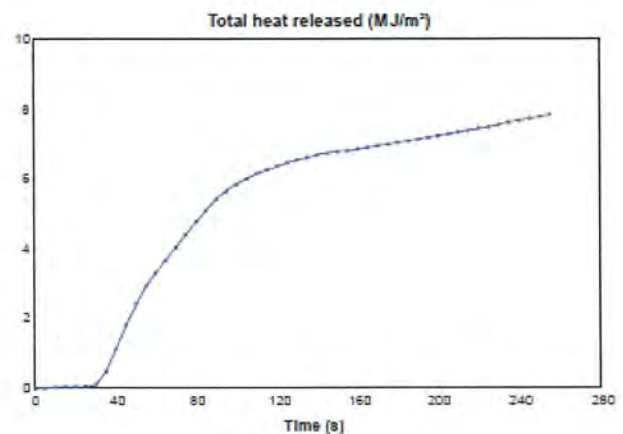
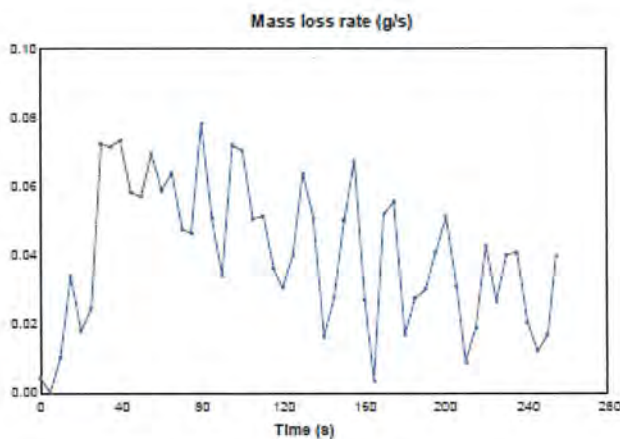
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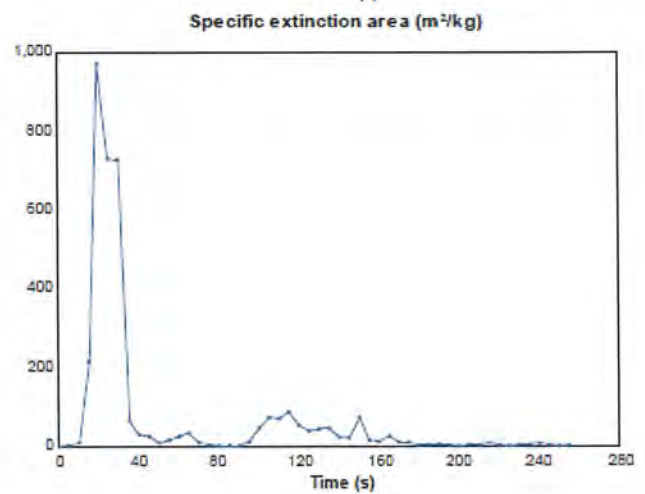
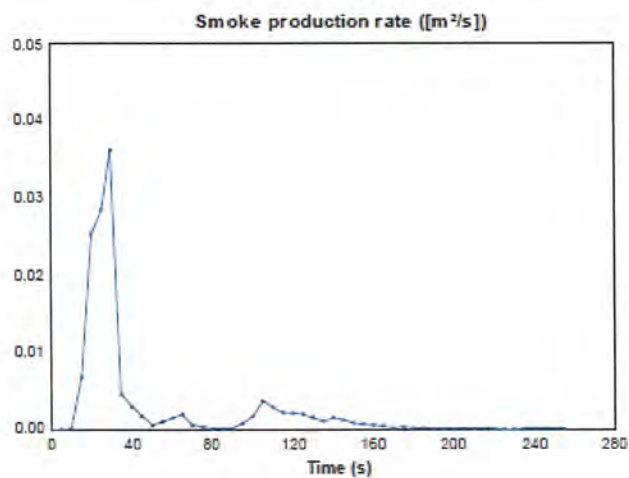
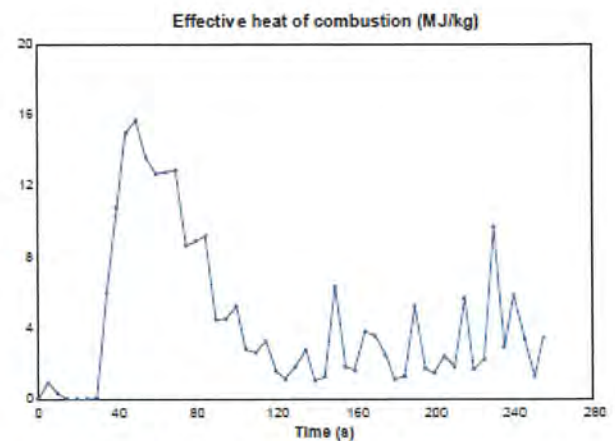
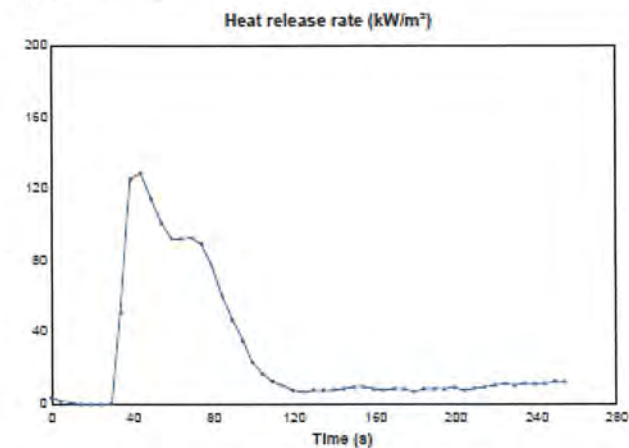
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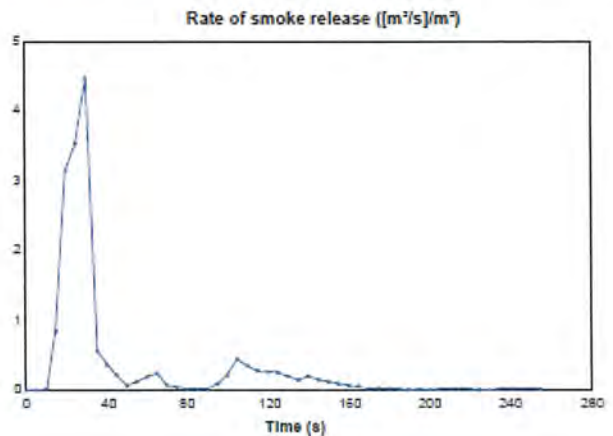
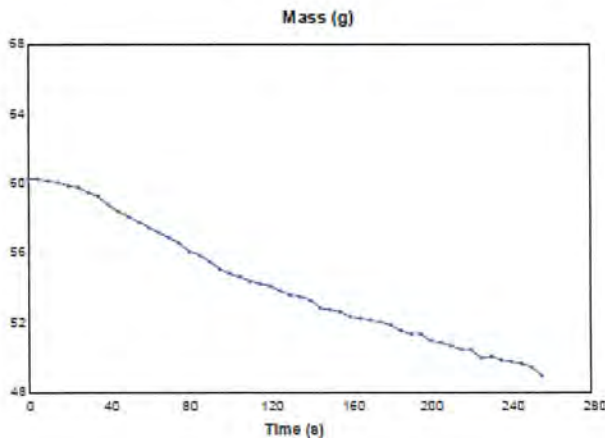
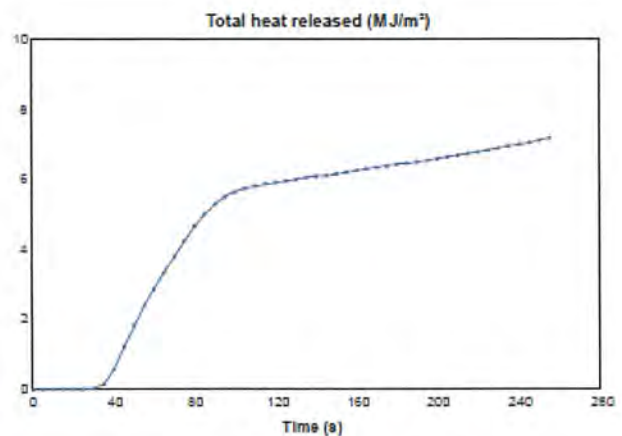
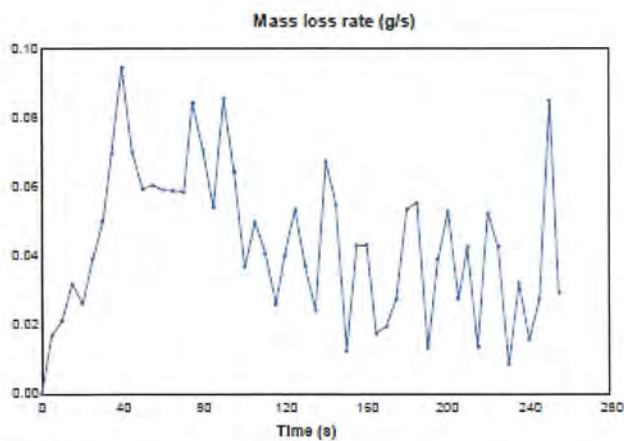
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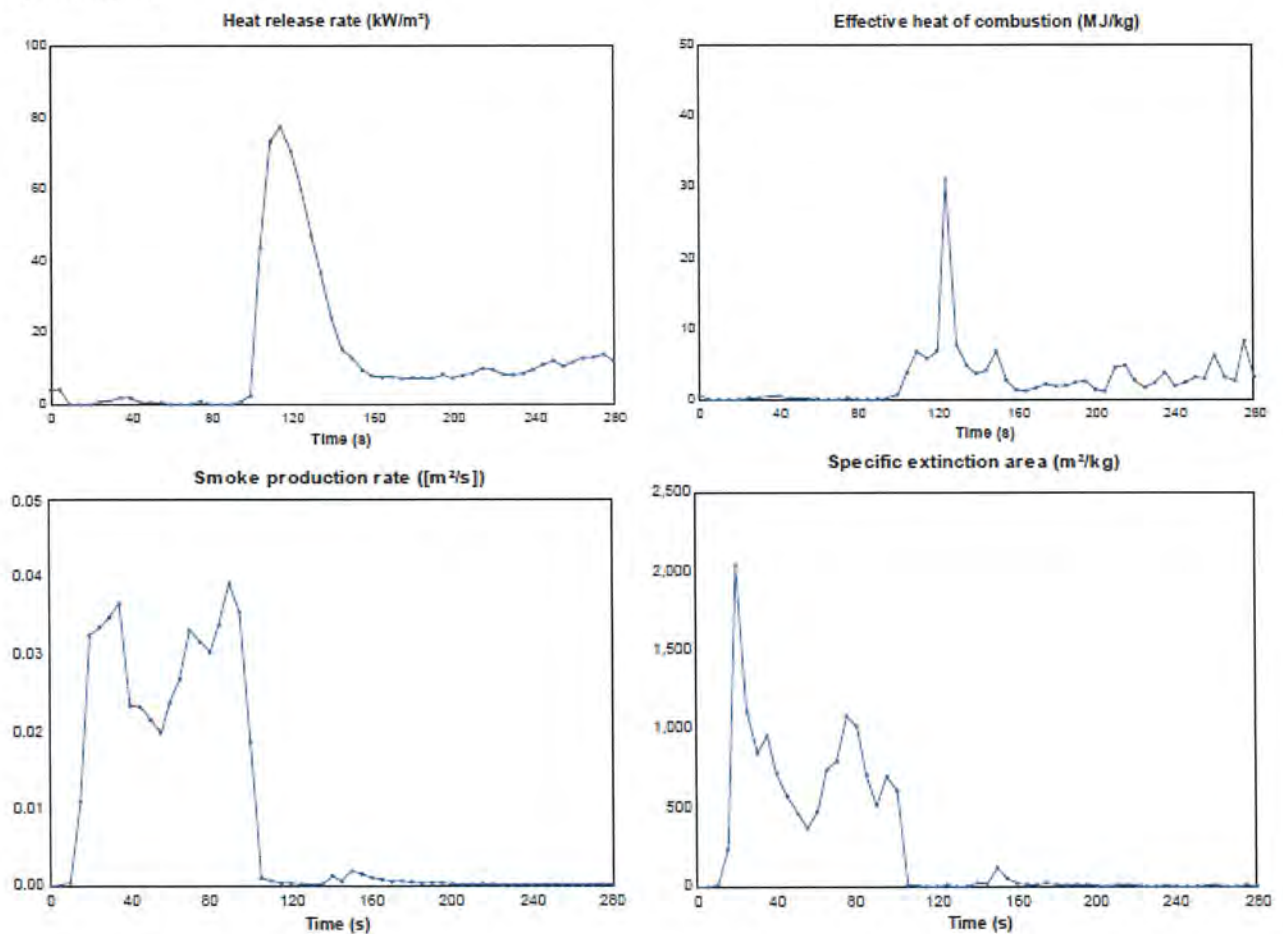
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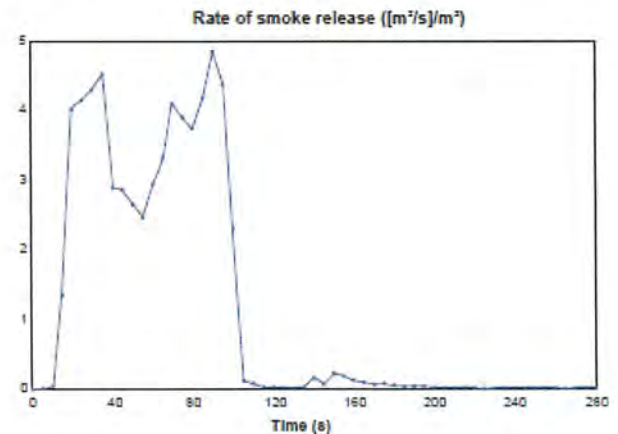
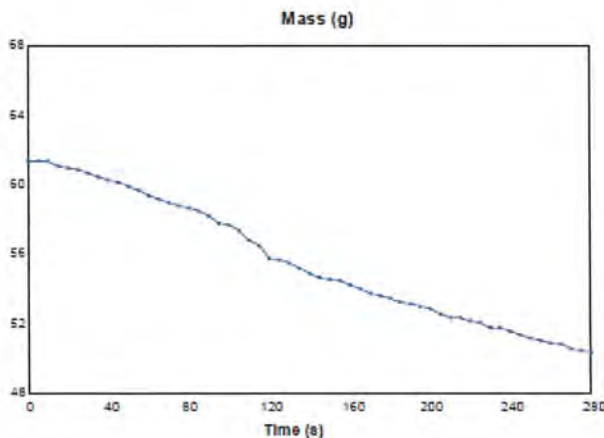
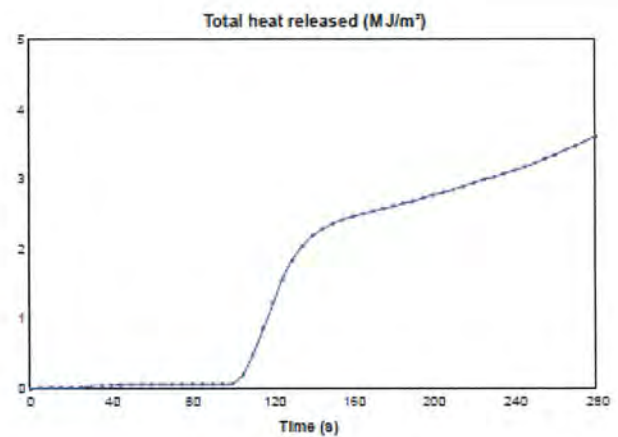
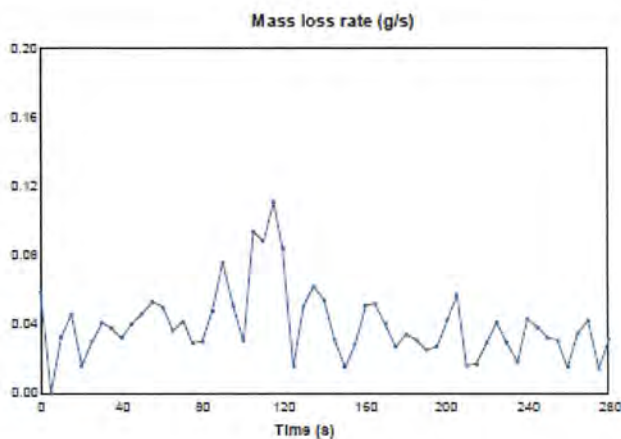
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