



## No. 1186018.6

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 4.7.17

SAMPLE DESCRIPTION:  
Woven fabric – Synergy 170, 95% Wool 5% Polyamide,  
400 grams lineal metre.  
End use – Panel & Upholstery

Client Order No.:

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

	Specimens			Mean
	1	2	3	
Average Heat Release:	24.1	21.8	21.9	22.6 kW/m <sup>2</sup>
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	64.3	71.6	67.8	67.9 m <sup>2</sup> /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)				2


Test Orientation: Horizontal

	Specimens			Mean
	1	2	3	
Irradiance	50	50	50	50 kW/m <sup>2</sup>
Exhaust Flow Rate	24	24	24	24 L/sec.
Time to Sustained Flaming	14	15	14	14 sec.
Test Duration	249	285	273	269 sec.
Peak Heat Release After Ignition	138.3	141.3	133.5	137.7 kW/m <sup>2</sup>
Average Heat at 60 s	79.2	76.2	74.2	76.5 kW/m <sup>2</sup>
Average Heat at 180 s	29.5	28.8	27.6	28.6 kW/m <sup>2</sup>
Average Heat at 300 s	N/A	21.8	21.9	14.6 kW/m <sup>2</sup>
Total Heat Released	5.7	5.9	5.7	5.8 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	4.1	3.9	4.1	4.0 MJ/kg
Initial Thickness	7.0	7.0	7.0	7.0 mm
Initial Mass	81.7	81.7	81.7	81.7 g
Mass Remaining	70.1	69.3	70.3	69.9 g
Mass Percentage Pyrolysed	14.2	15.2	13.9	14.4%
Mass Loss	11.6	12.4	11.4	11.8 g
Average Rate of Mass Loss	6.0	5.7	5.4	5.7 g/m <sup>2</sup> .s

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L A Greer  
Signatory

  
C Judan  
Signatory

04/08/2017

New Zealand Wool Testing Authority Ltd

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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.

This test was carried out by a sub-contracted laboratory.

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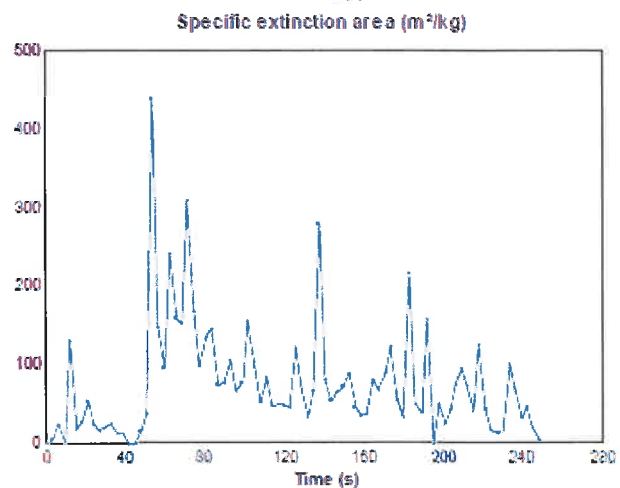
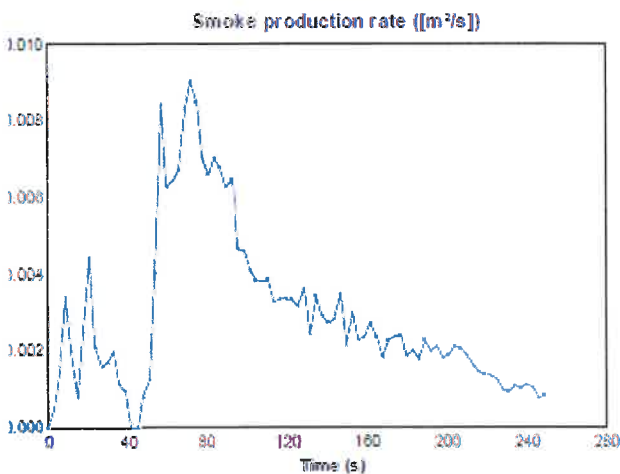
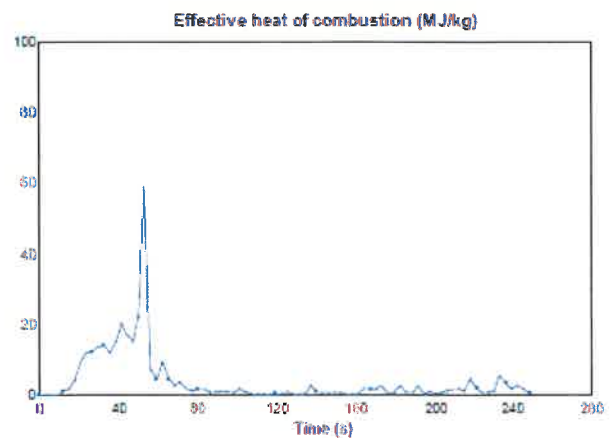
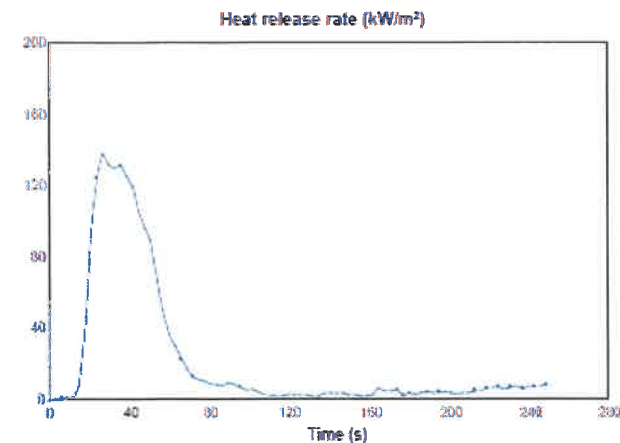
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Specimen : 1



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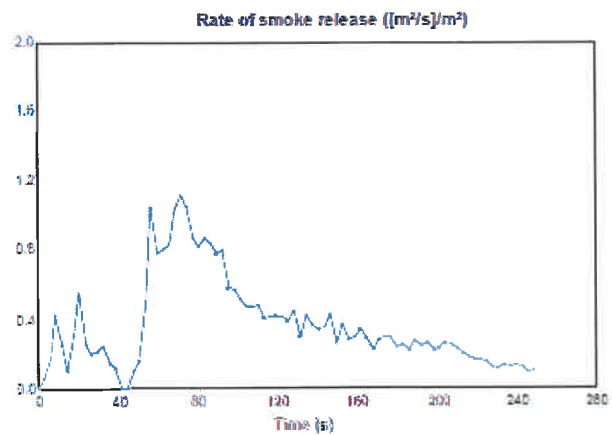
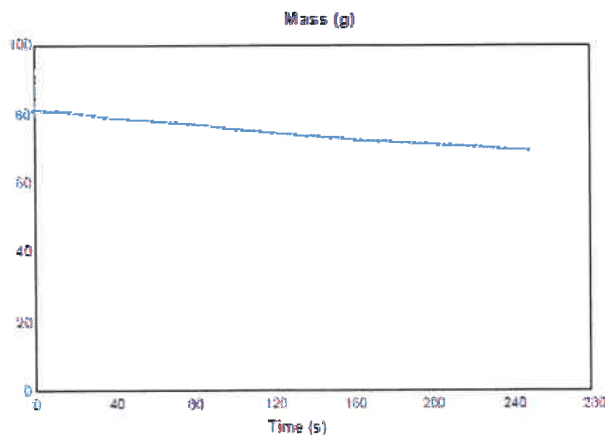
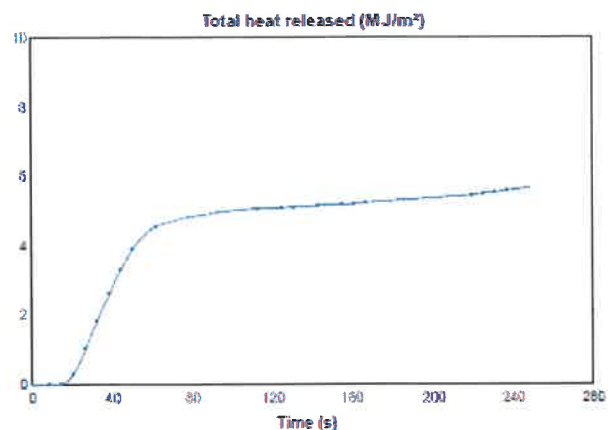
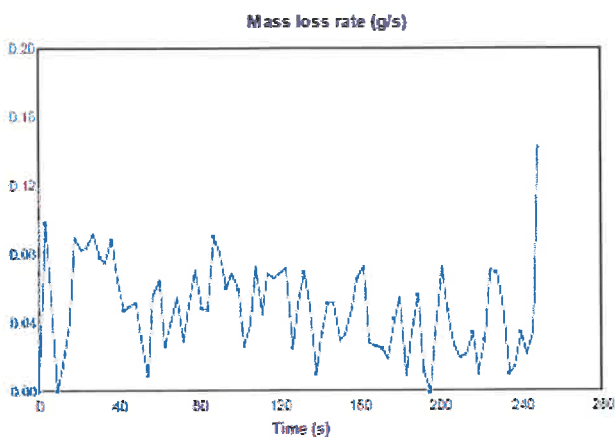
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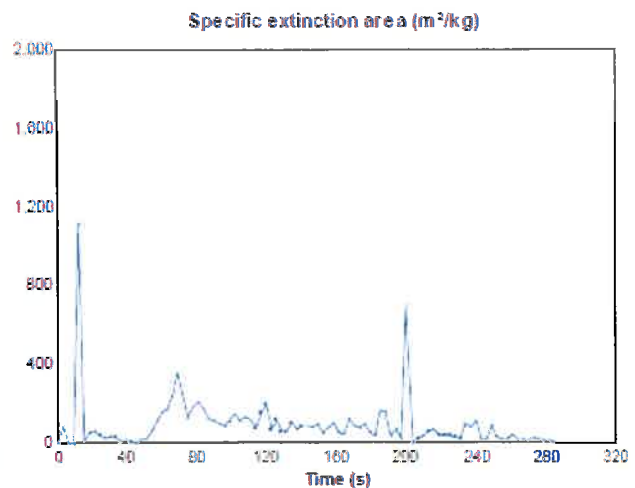
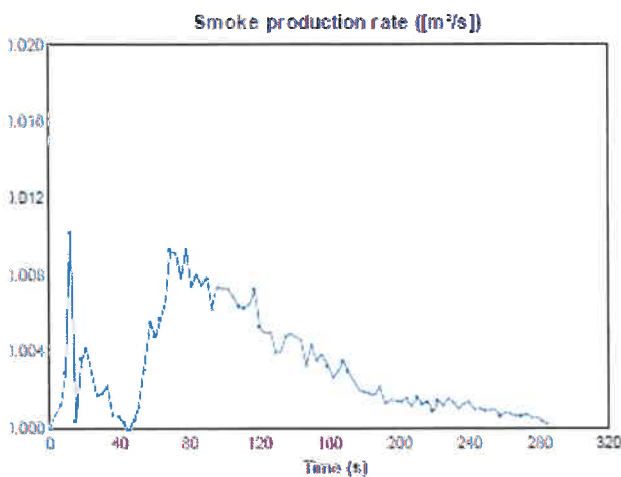
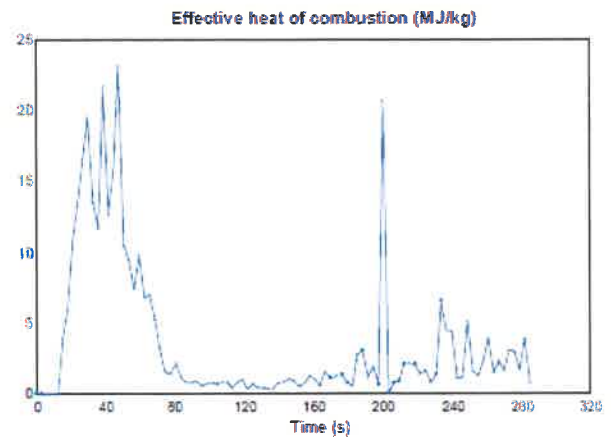
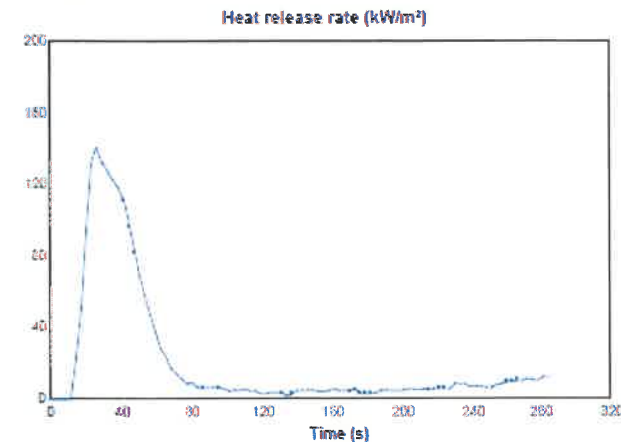
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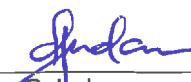
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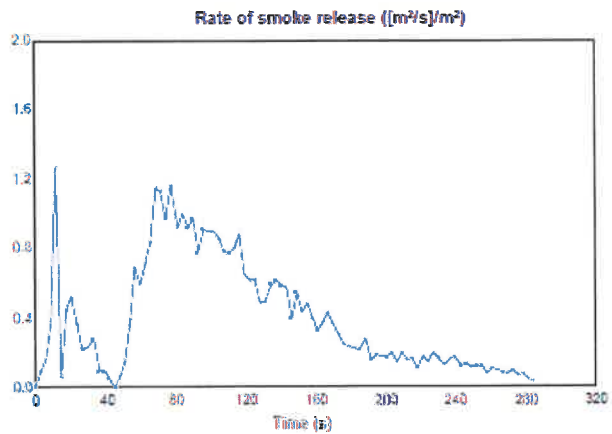
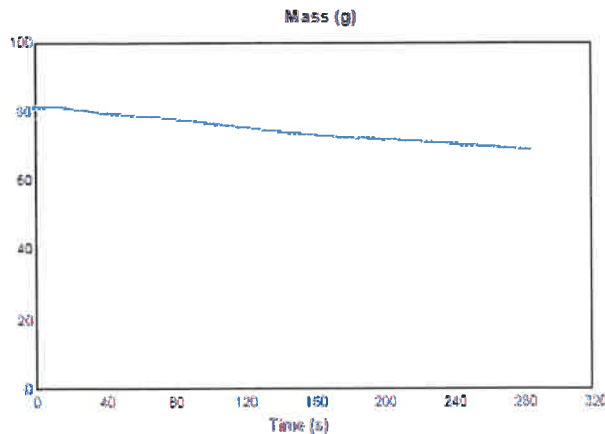
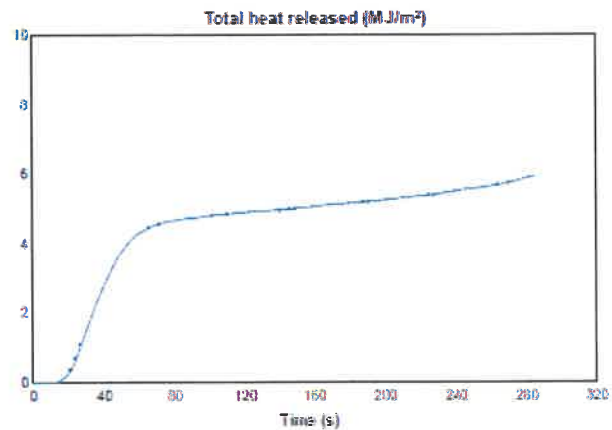
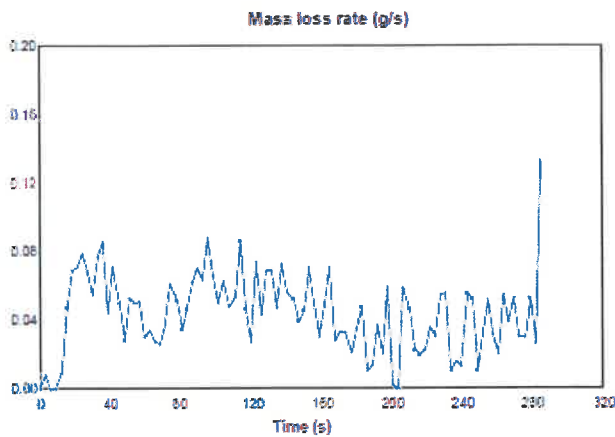
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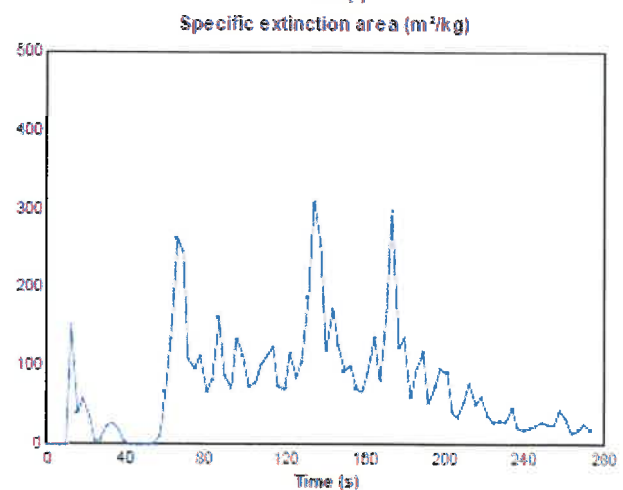
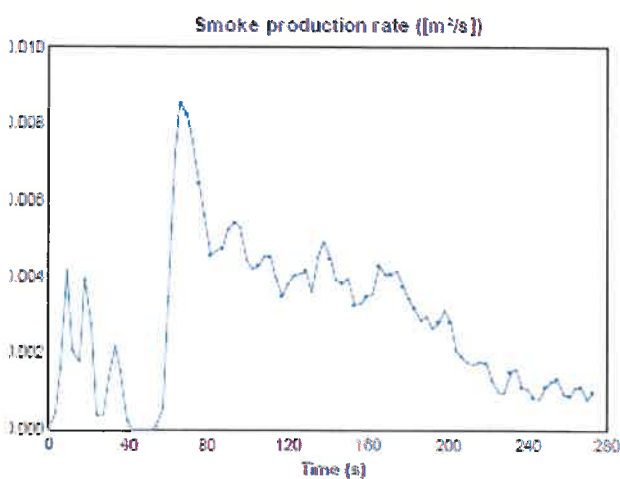
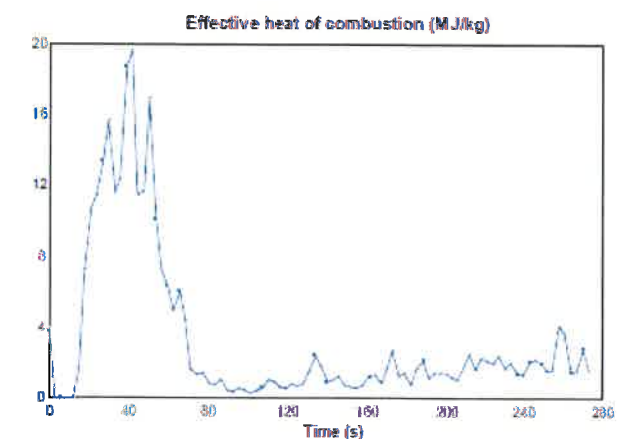
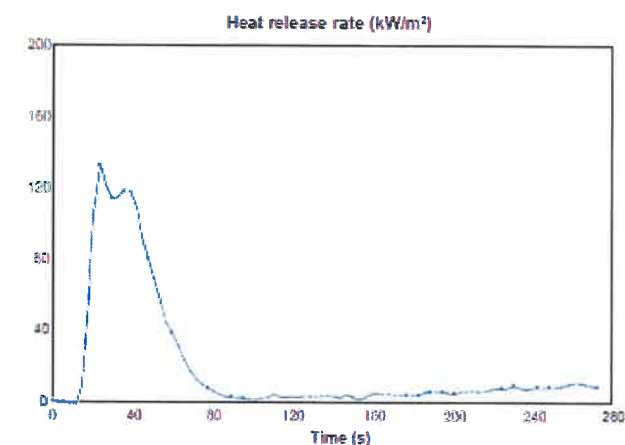
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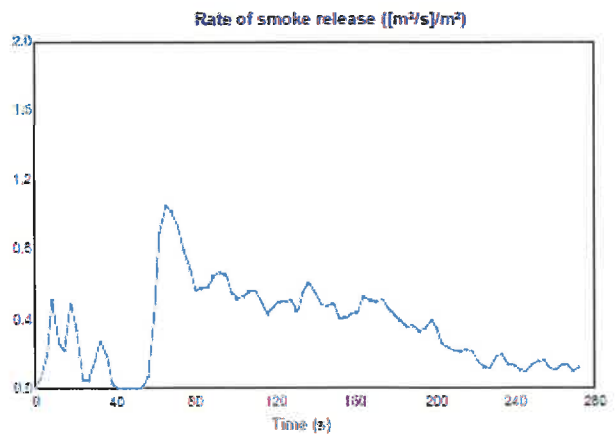
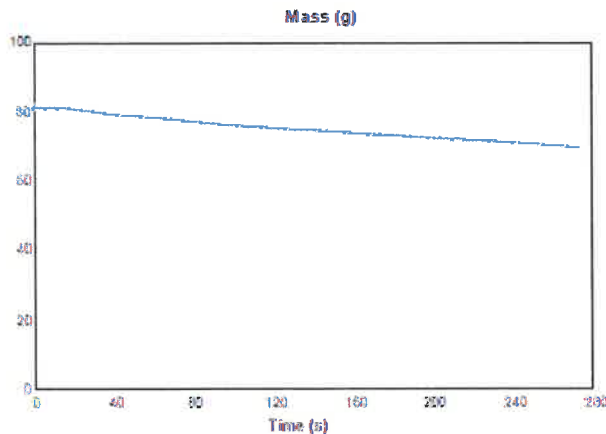
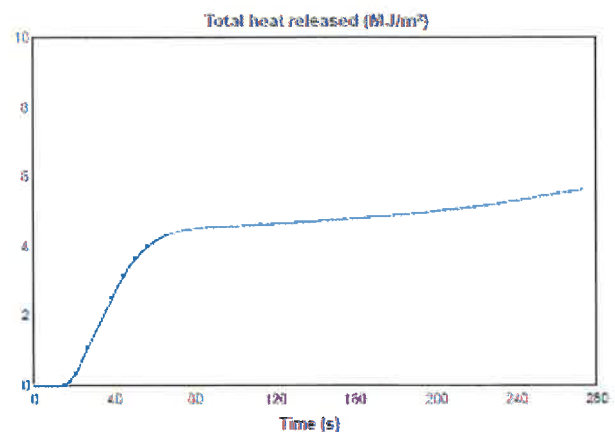
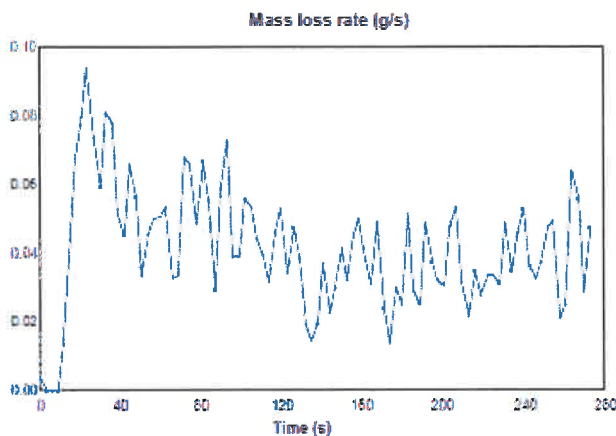
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