



## No. 1366363.8A

(Please quote this number in all correspondence)

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

SAMPLE RECEIVED FROM:  
Textilia Ltd.

Date Received: 16.3.21

SAMPLE DESCRIPTION:  
Brown fabric – KORK  
Nominal Composition – 93% Cork 7% Polyurethane  
Substrate – 55% PU 29.5% Polyester 15.5% Cotton  
Nominal Weight – 450 grammes per lineal metre / 333gsm  
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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 No. 21-001359).

	Specimens			Mean
	1	2	3	
Average Heat Release Rate	7.8	8.8	9.8	8.8 kW/m <sup>2</sup>
Average Specific Extinction Area	33.6	17.2	15.8	22.2 m <sup>2</sup> /kg
Group Number Classification				<b>2S</b>
(In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				

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	18	17	16 sec.
Test Duration	1814	1818	1817	1816 sec.
Peak Heat Release After Ignition	123.3	148.3	141.8	137.8 kW/m <sup>2</sup>
Average Heat at 180 s	50.5	52.0	51.1	51.2 kW/m <sup>2</sup>
Average Heat at 300 s	35.9	37.7	36.2	36.6 kW/m <sup>2</sup>
Total Heat Released	14.8	16.1	17.7	16.2 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	6.4	7.1	8.1	7.2 MJ/kg
Initial Thickness	11	11	11	11 mm
Initial Mass	63.0	61.7	61.4	62.0 g
Mass at Sustained Flaming	63.0	61.5	61.3	61.9 g
Mass Remaining	44.9	43.6	43.8	44.1 g
Mass Loss	2232.0	2234.3	2172.3	2212.9 g/m <sup>2</sup>
Average Rate of Mass Loss	1.2	1.2	1.2	1.2 g/m <sup>2</sup> .s

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Signatory

  
C Judan  
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21/04/2021

**New Zealand Wool Testing Authority Ltd**

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Total Smoke Production (non-flaming phase)	3.1	9.2	7.6	6.6 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (flaming phase)	84.4	58.7	56.6	66.5 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (non flaming & flaming phase)	87.5	67.9	64.2	73.2 m <sup>2</sup> /m <sup>2</sup>
Specimen Surface Area				-
C-Factor (Calibration Constant)	0.042233	0.042233	0.042233	-

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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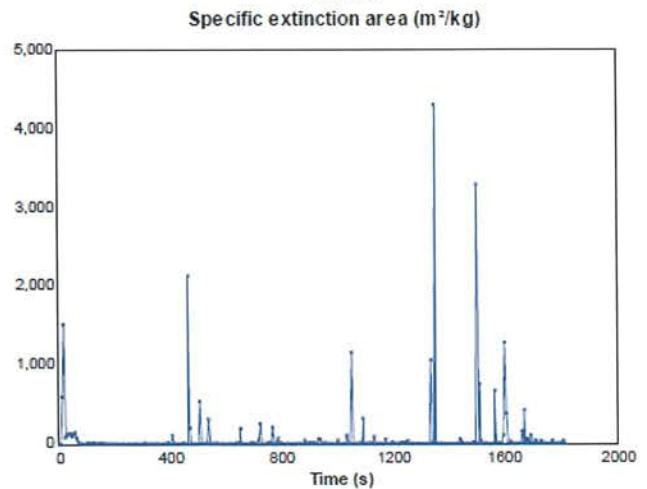
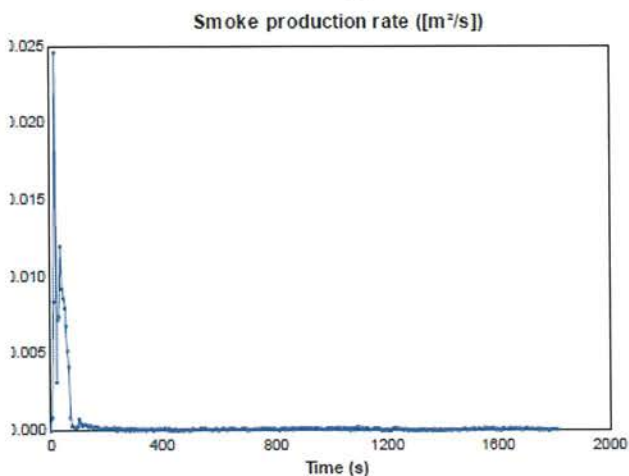
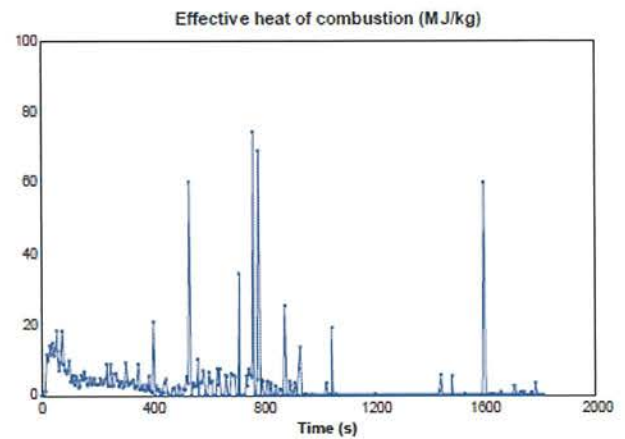
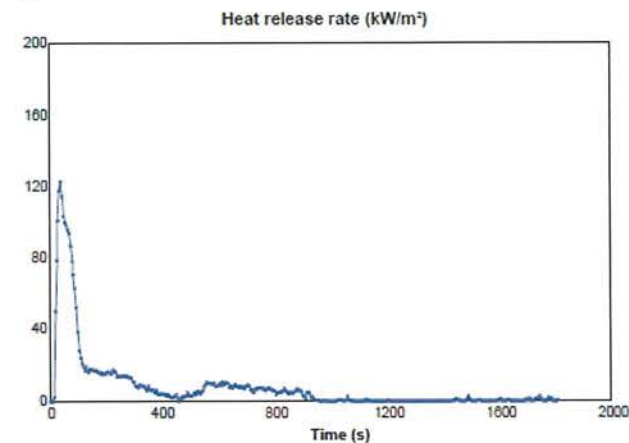
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Specimen : 1



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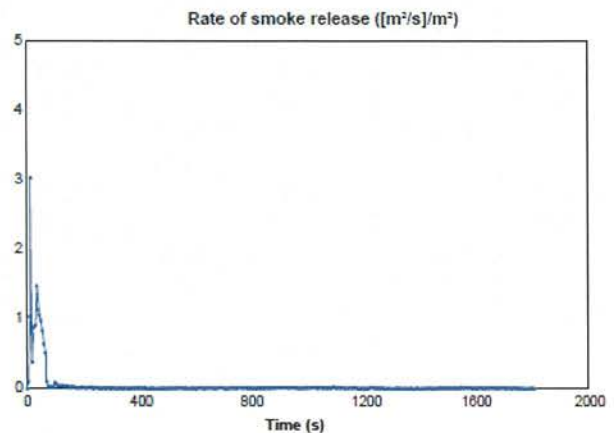
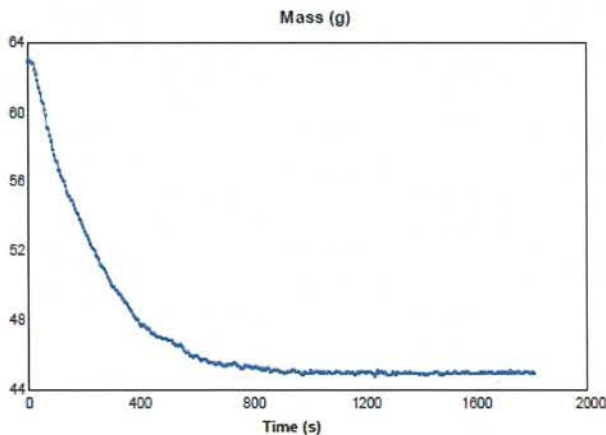
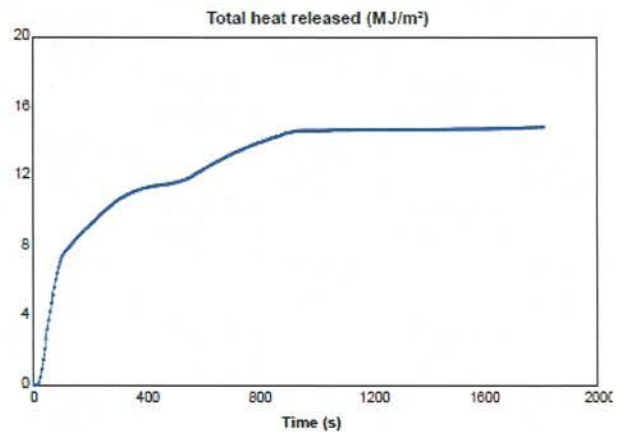
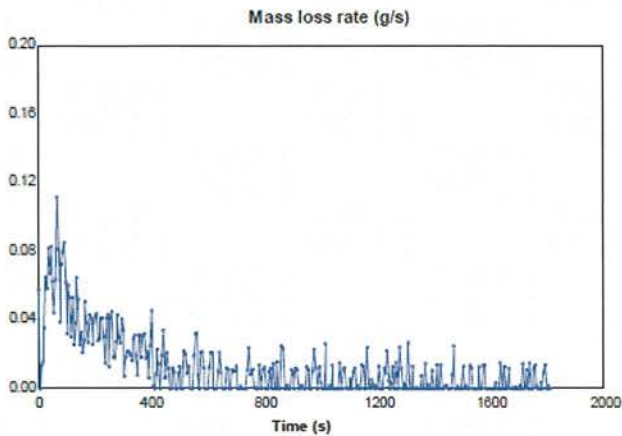
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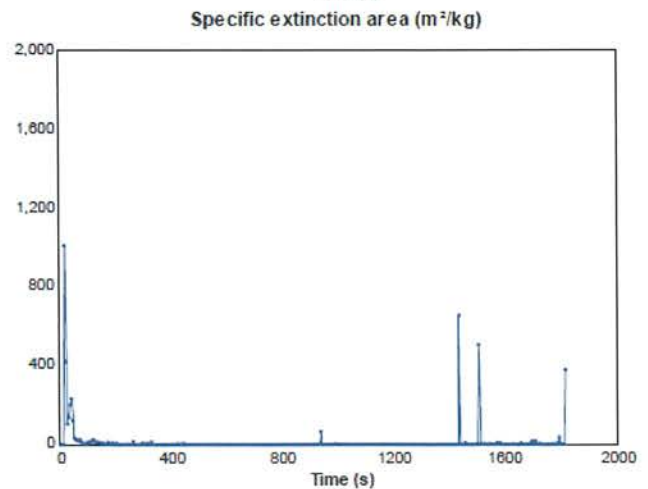
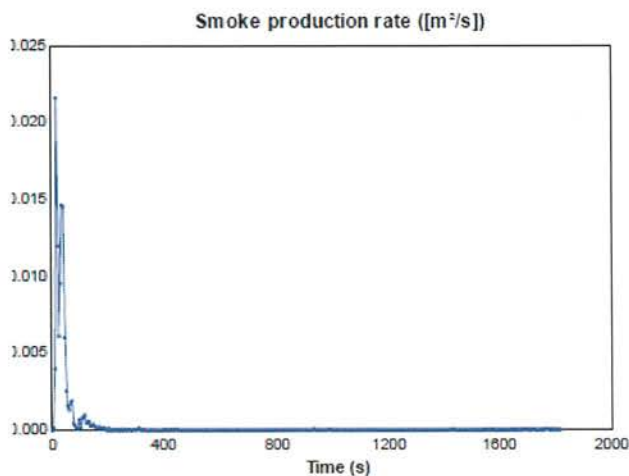
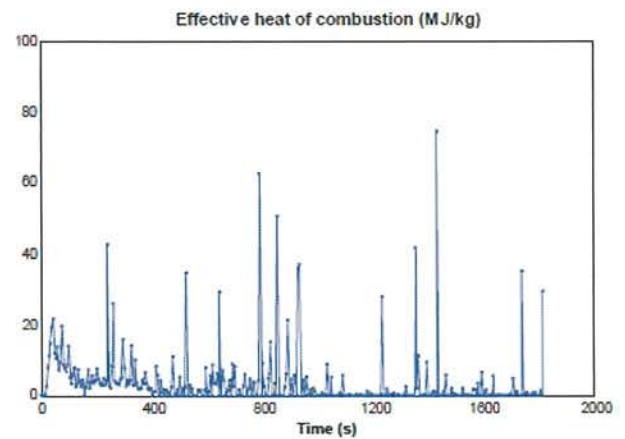
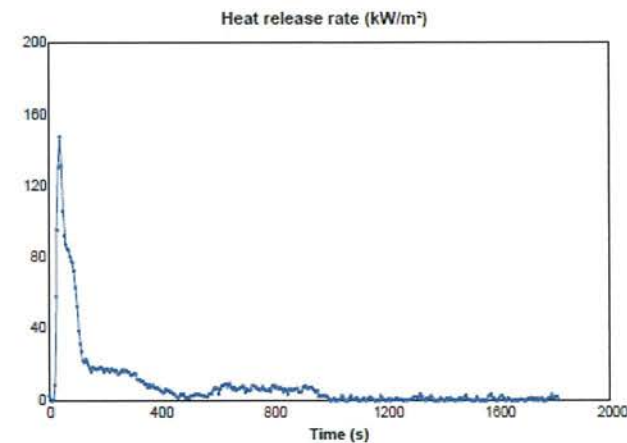
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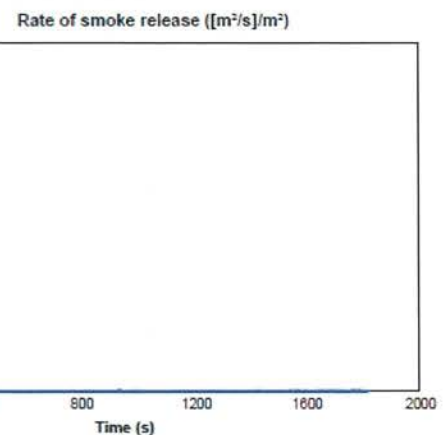
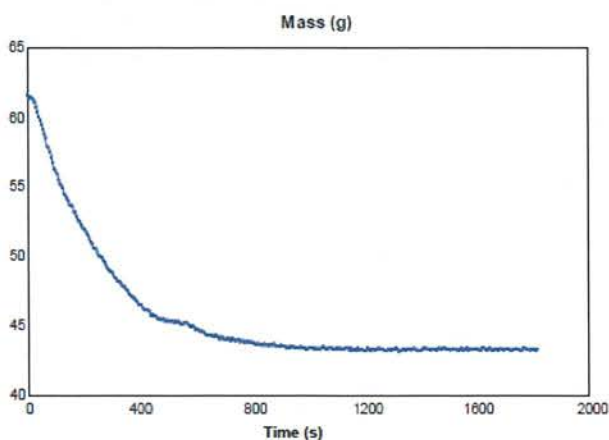
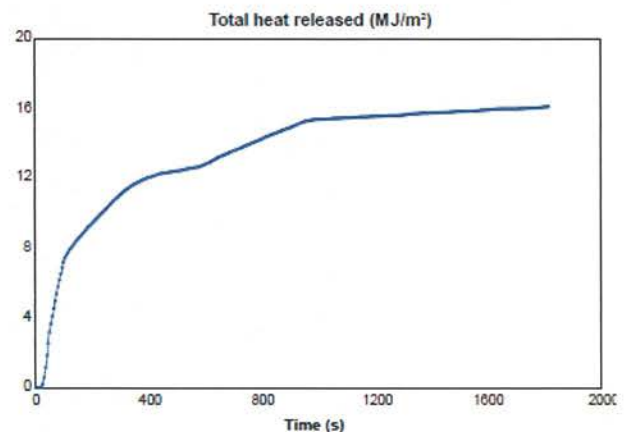
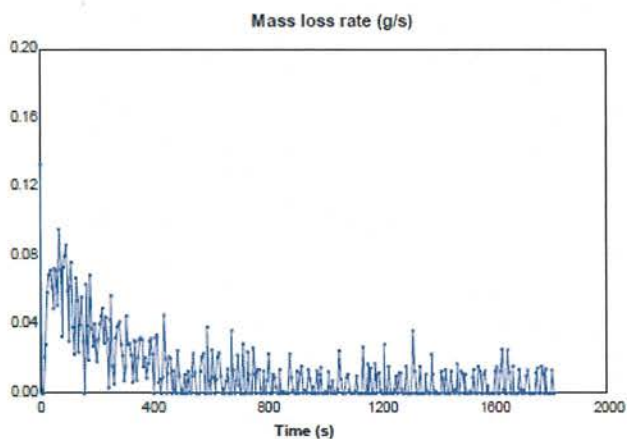
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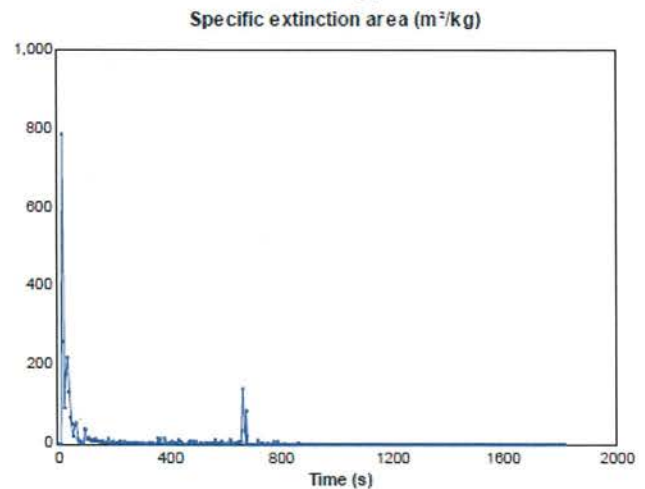
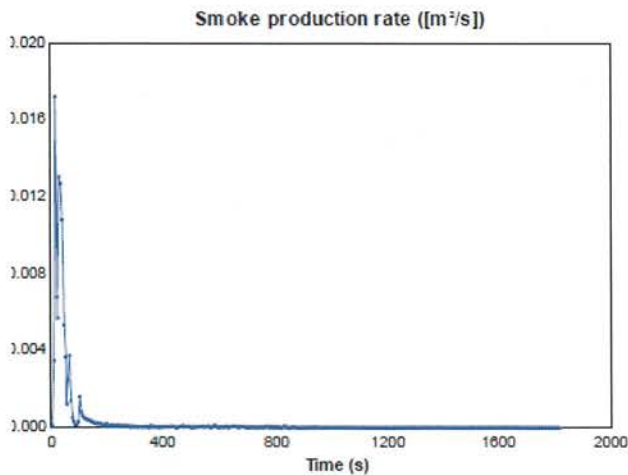
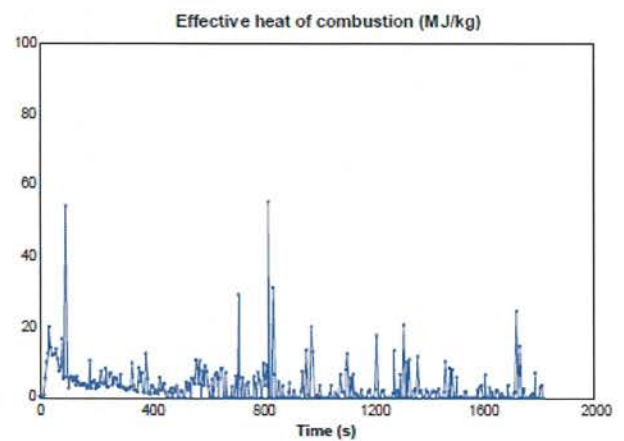
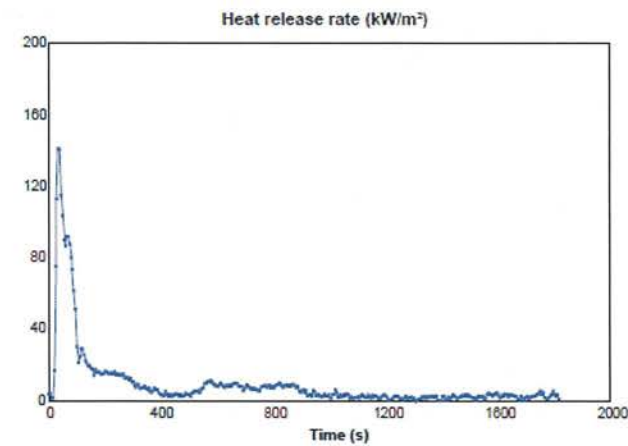
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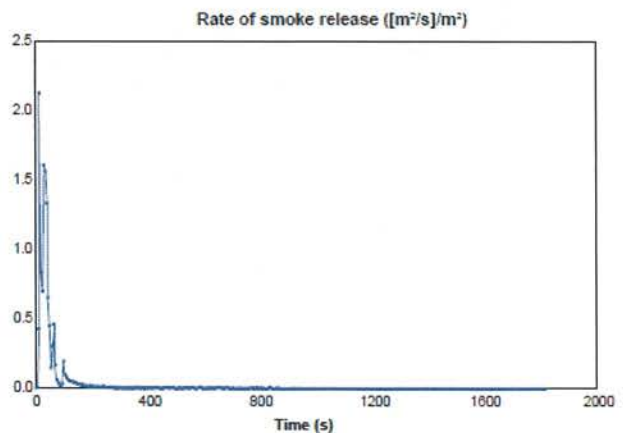
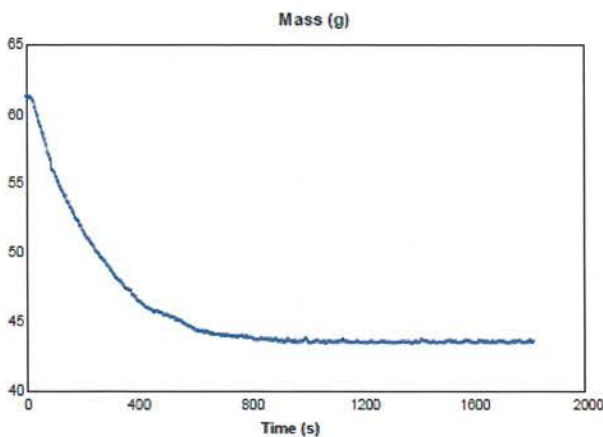
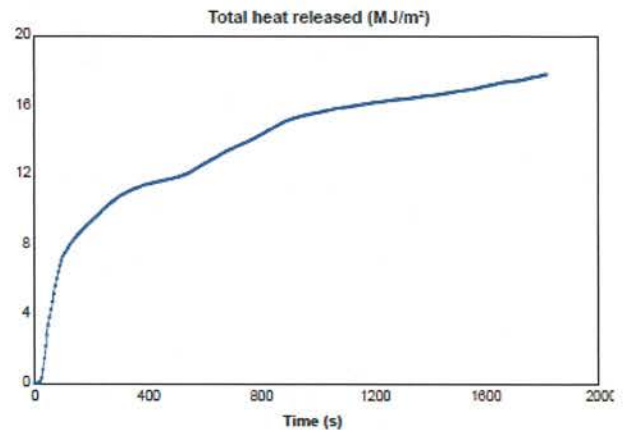
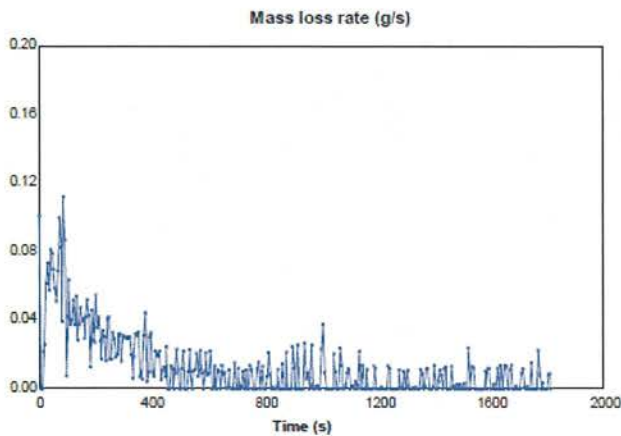
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