



No. 1249972.9A

(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

**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. 18-006129)

	Specimens			Mean
	1	2	3	
Average Heat Release	6.3	7.7	11.3	8.4 kW/m ²
Average Specific Extinction Area	76.4	105.4	56.4	79.1 m ² /kg

Group Number Classification

1S

(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 ²
Exhaust Flow Rate	0.024	0.024	0.024	0.024 m ³ /sec.
Time to Sustained Flaming	32	36	26	31 sec.
Test Duration	1832	1836	1826	1831 sec.
Peak Heat Release After Ignition	105.3	109.8	109.5	108.2 kW/m ²
Average Heat at 180 s	42.4	41.9	47.7	44.0 kW/m ²
Average Heat at 300 s	29.3	30.3	34.2	31.3 kW/m ²
Total Heat Released	11.9	14.0	20.3	15.4 MJ/m ²
Ave. Effective Heat of Combustion	6.4	8.5	12.4	9.1 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	70.5	62.8	66.7	66.6 g
Mass Loss	1805.6	1628.6	1658.8	1697.7 g/m ²
Average Rate of Mass Loss	2.5	3.3	3.1	3.0 g/m ² .s

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30/11/2018

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Total Smoke Production (non-flaming phase)	3.1	5.3	1.6	3.3 m ² /m ²
Total Smoke Production (flaming phase)	138.1	170.3	97.1	135.1 m ² /m ²
Total Smoke Production (non-flaming & flaming phase)	141.1	175.6	98.6	138.4 m ² /m ²
Specimen Surface Area	0.00810	0.00810	0.00810	- m ²
C-Factor (Calibration Constant)	0.041057	0.041057	0.041057	-

Additional Observations 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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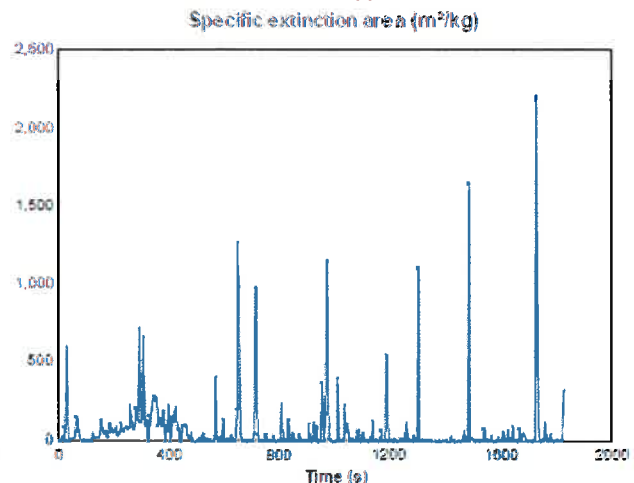
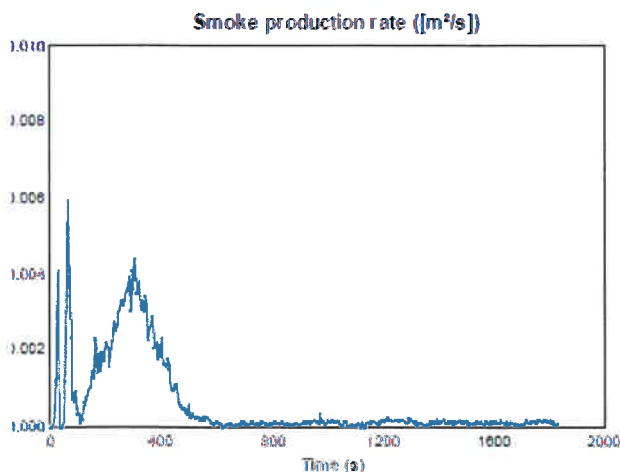
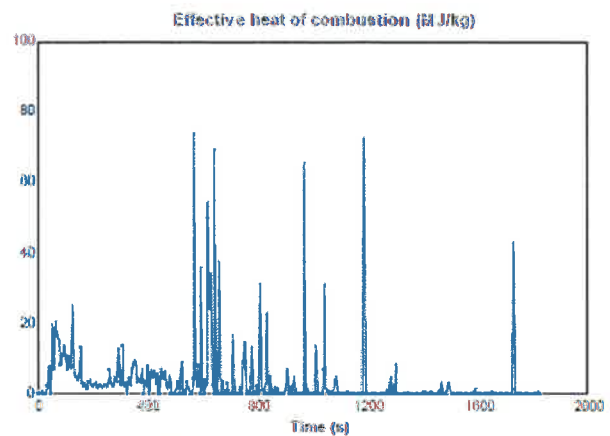
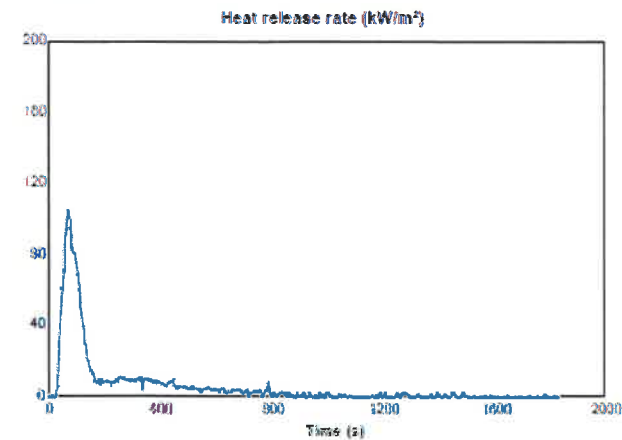
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Specimen : 1



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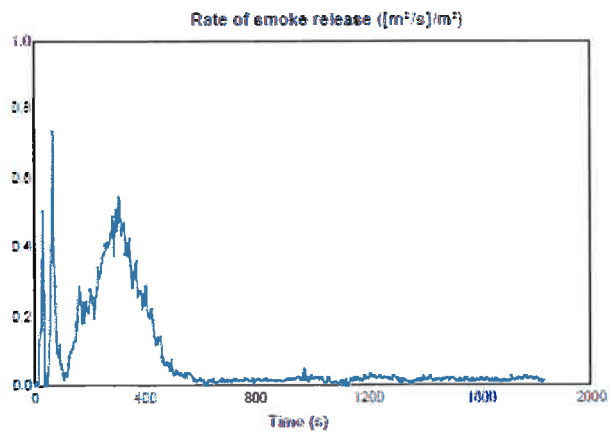
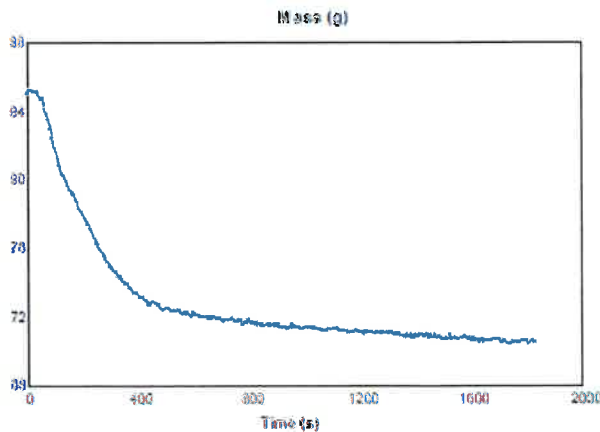
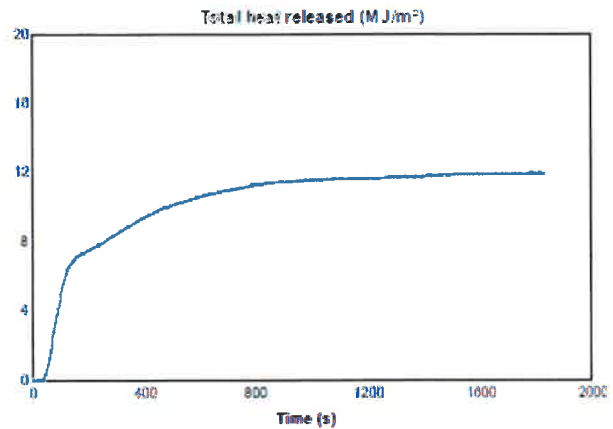
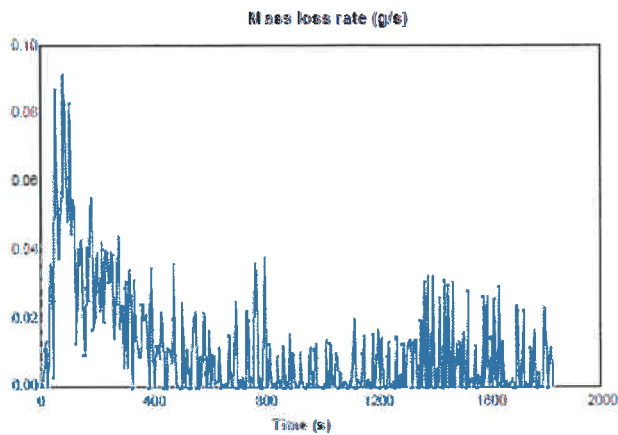
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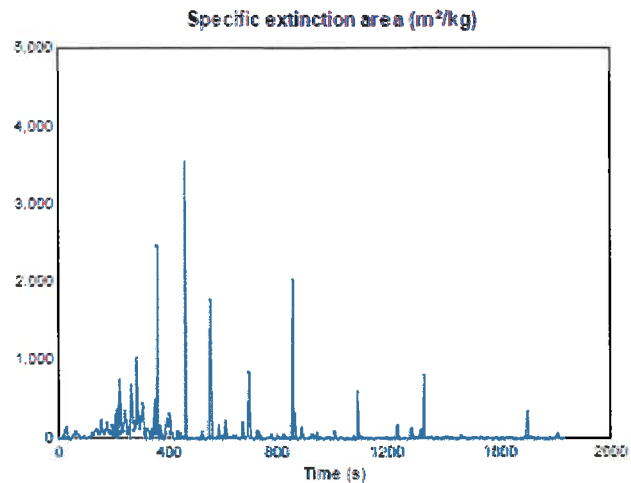
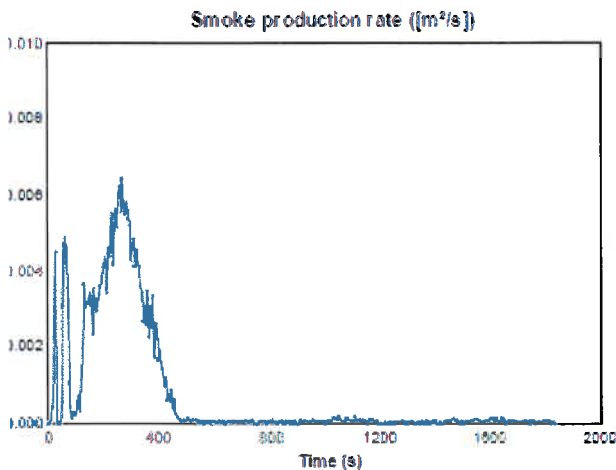
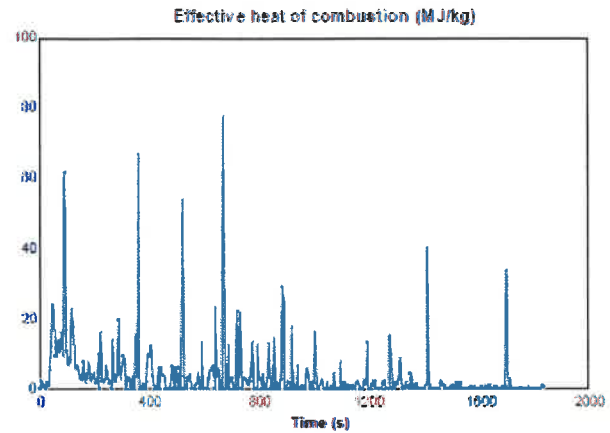
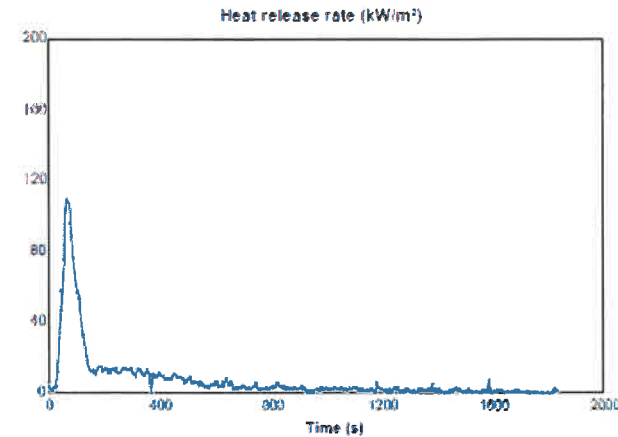
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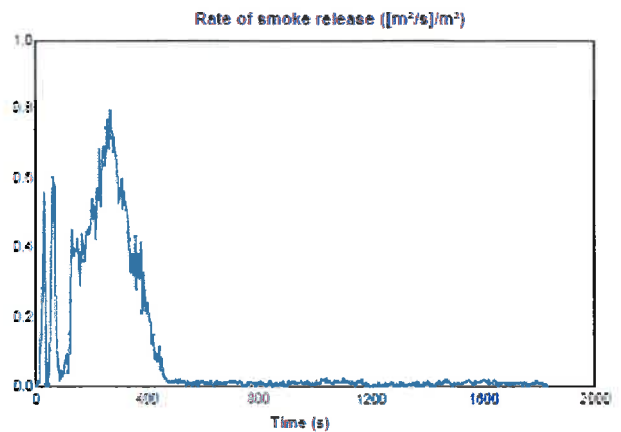
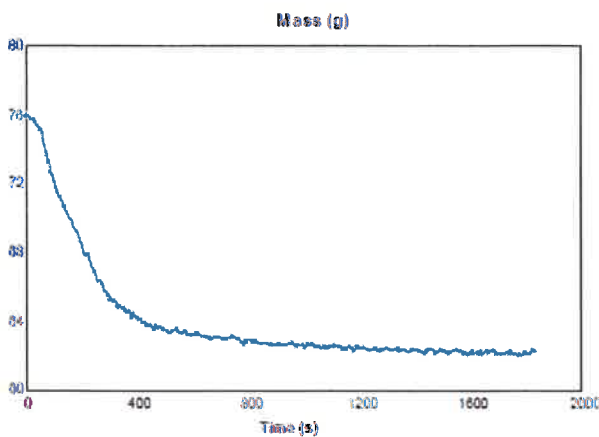
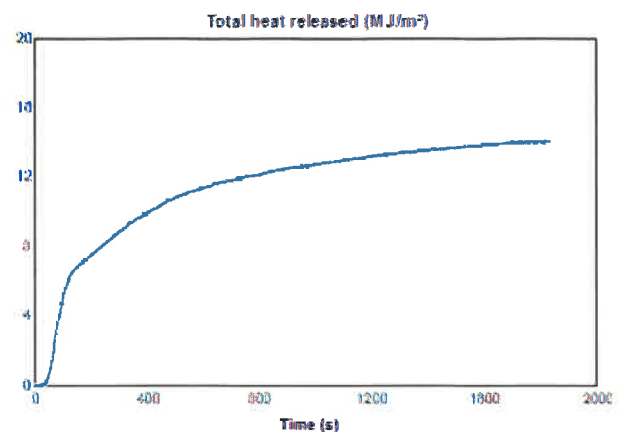
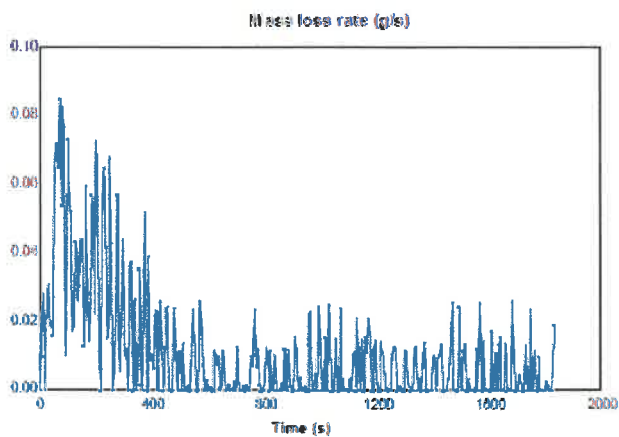
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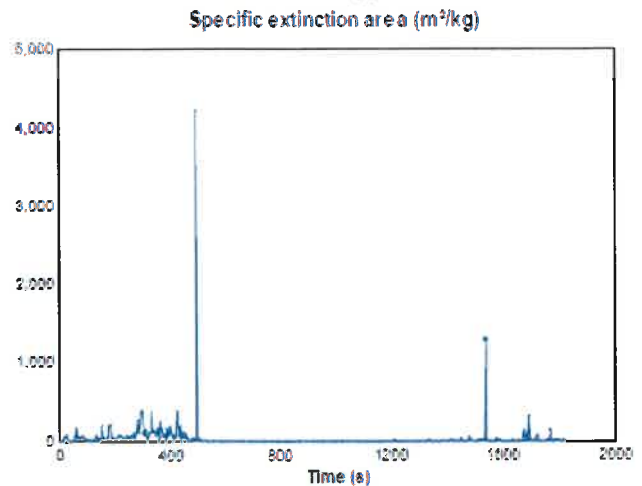
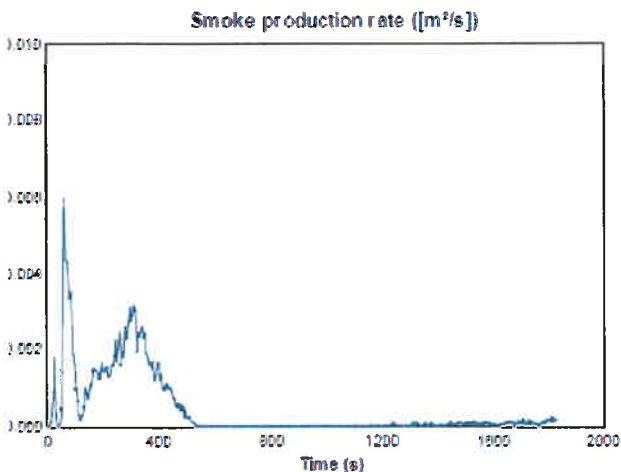
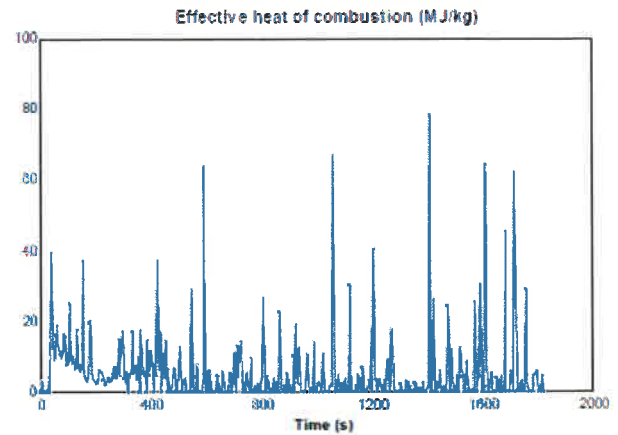
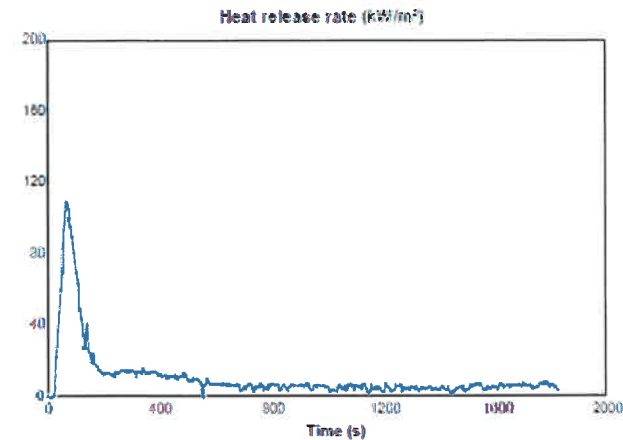
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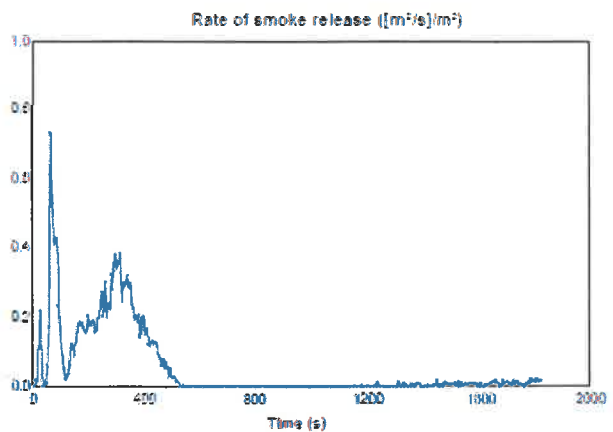
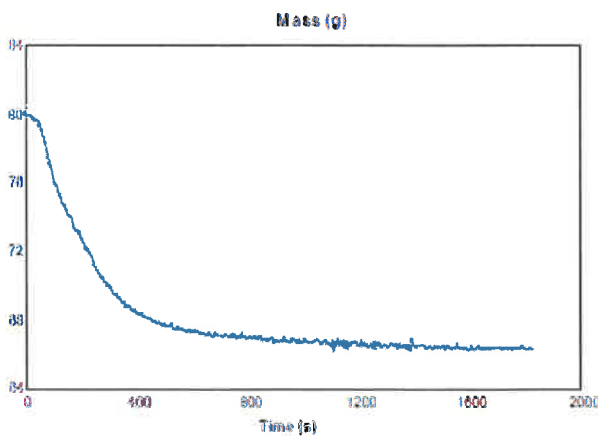
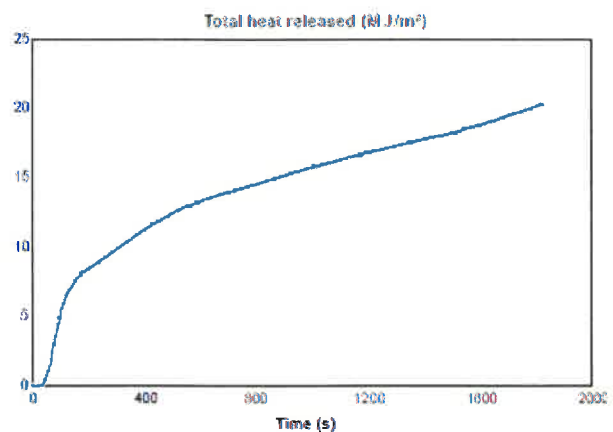
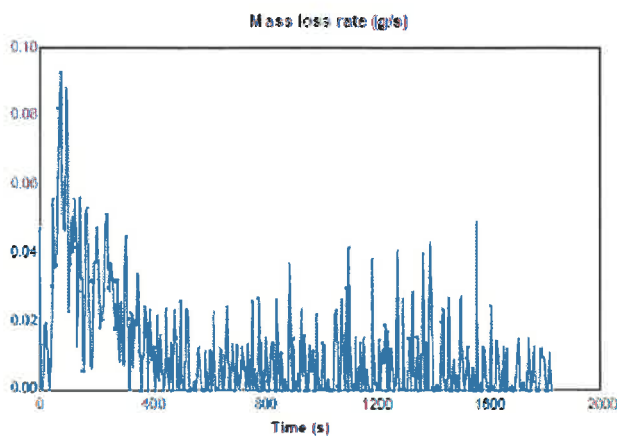
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