

No. 1498335.7B

(Please quote this number in all correspondence)

CLIENT: Textilia Ltd. PO Box 37 378 Parnell, Auckland	SAMPLE RECEIVED FROM: Textilia Ltd.	Date Received: 30.1.24
Attn.: Therese Ronalde	SAMPLE DESCRIPTION: Brown upholstery fabric – Infinity Nominal Composition – 100% Polyester Nominal Weight – 553 grammes per lineal meter	
Client Order No.:	Client Reference:	1 of 9

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. 24-000380).

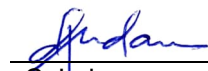
	Specimens			Mean
	1	2	3	
Average Heat Release Rate	12.0	10.5	10.0	10.8 kW/m ²
Average Specific Extinction Area	92.3	86.0	83.2	87.2 m ² /kg
Group Number Classification (In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				1S

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	54	69	76	66 sec.
Test Duration	1854	1869	1876	1866 sec.
Peak Heat Release After Ignition	201.9	175.6	196.6	191.4 kW/m ²
Average Heat at 180 s	57.9	57.5	58.3	57.9 kW/m ²
Average Heat at 300 s	41.5	41.6	41.4	41.5 kW/m ²
Total Heat Released	21.5	18.9	18.2	19.6 MJ/m ²
Average Effective Heat of Combustion	9.6	9.1	8.9	9.2 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	91.1	87.6	87.6	88.8 g
Mass at Sustained Flaming	90.7	86.8	86.3	87.9 g
Mass Remaining	72.8	70.5	70.9	71.4 g
Mass Loss	2258.0	2114.5	2064.7	2145.7 g/m ²
Average Rate of Mass Loss	1.2	1.2	1.1	1.2 g/m ² .s

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Key Technical Person

13/03/2024

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Total Smoke Production (non-flaming phase)	6.7	8.4	16.8	10.6 m ² /m ²
Total Smoke Production (flaming phase)	211.5	186.5	179.5	192.5 m ² /m ²
Total Smoke Production (non flaming & flaming phase)	218.2	194.9	196.3	203.1 m ² /m ²
C-Factor (Calibration Constant)	0.044429	0.044429	0.044429	-

Additional Observation: Nil
Difficulties Encountered During Testing: Nil

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

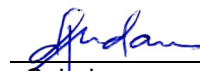
Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Note: All calculations are based on ignition + 30 minutes.

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.

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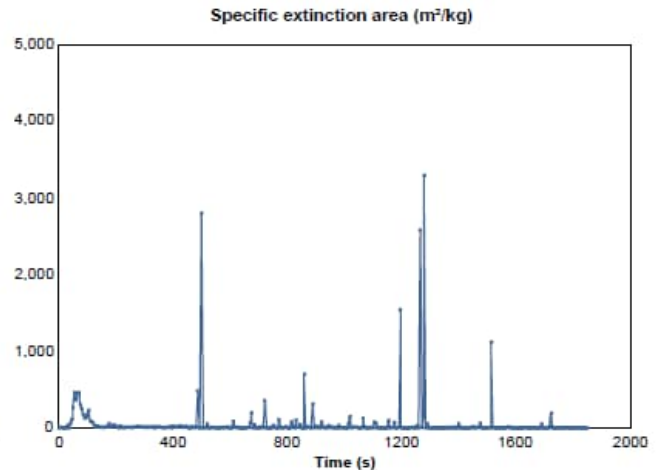
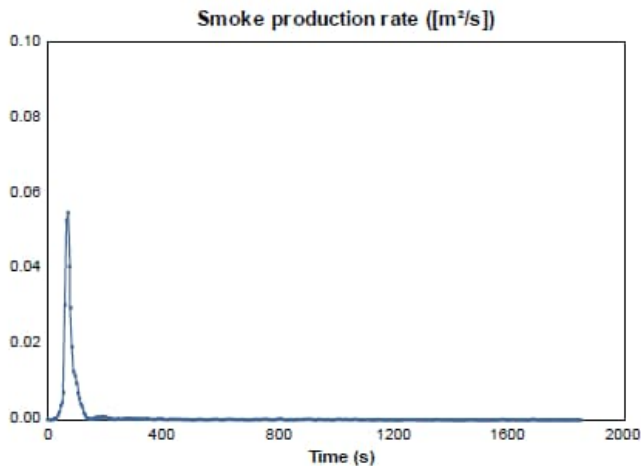
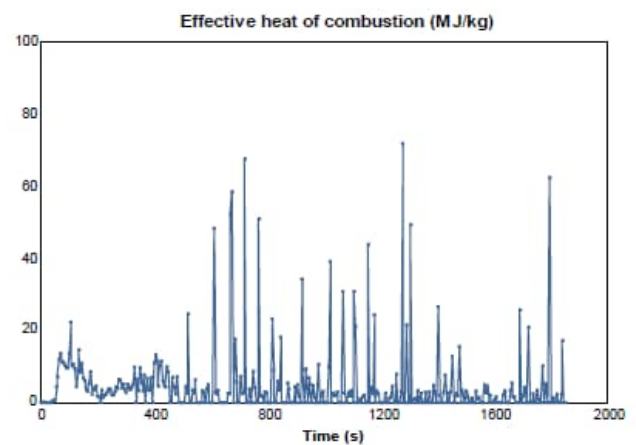
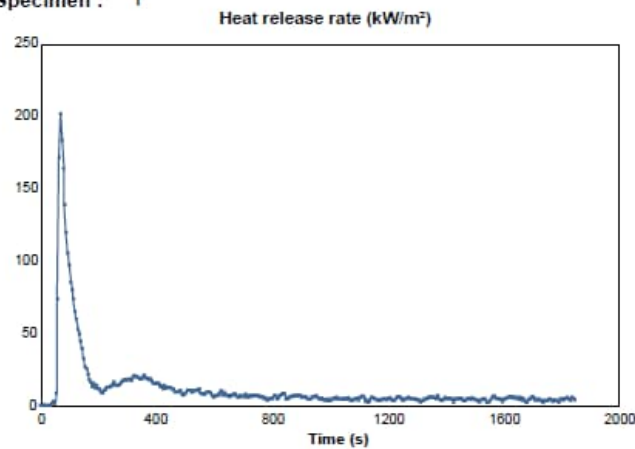
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Specimen : 1



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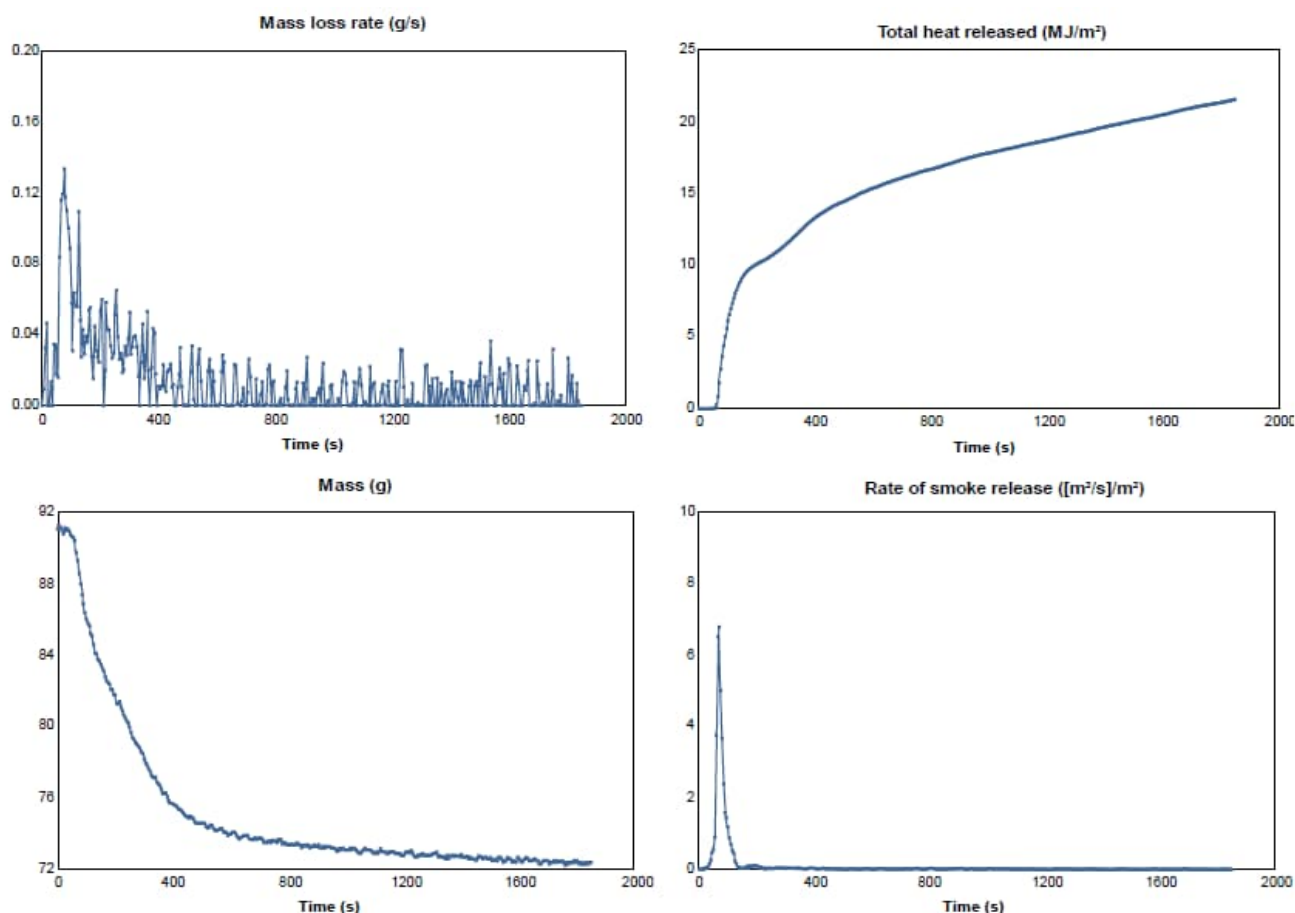
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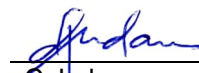
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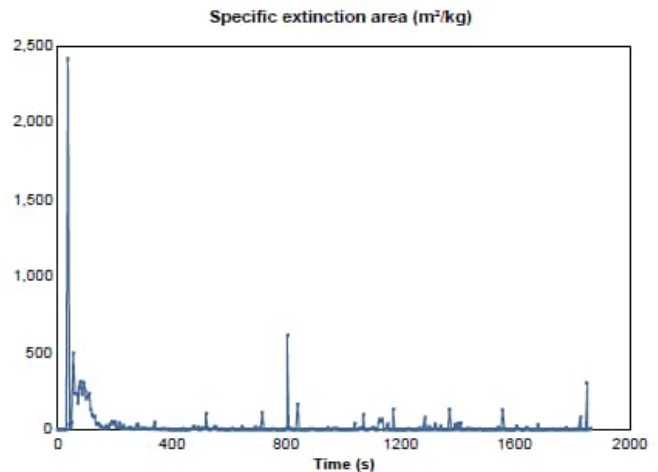
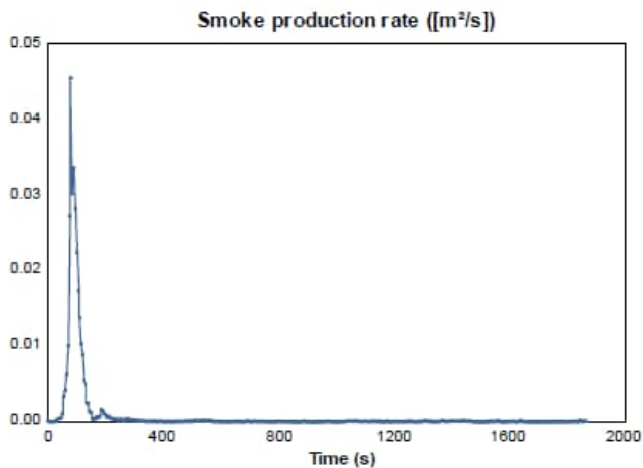
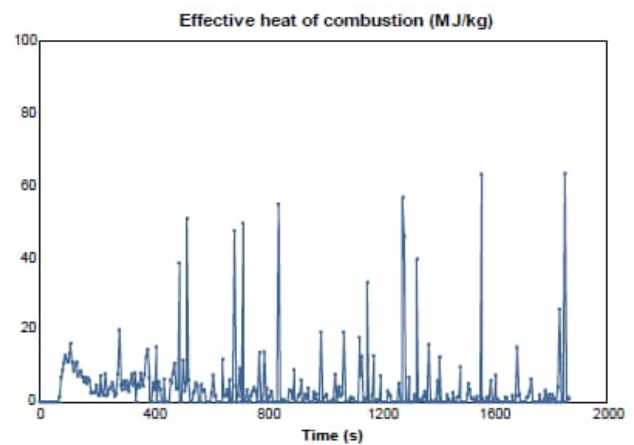
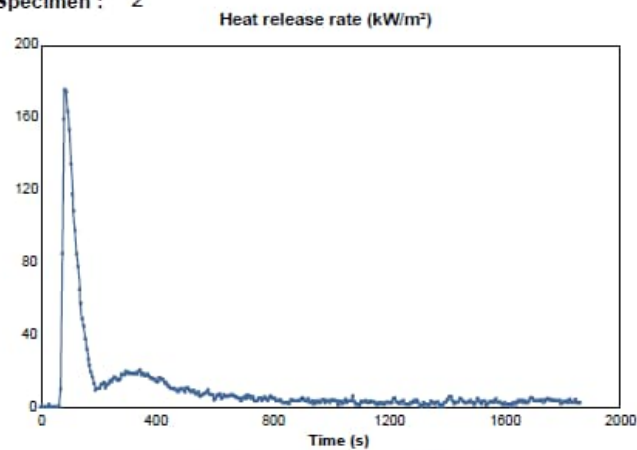
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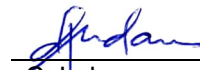
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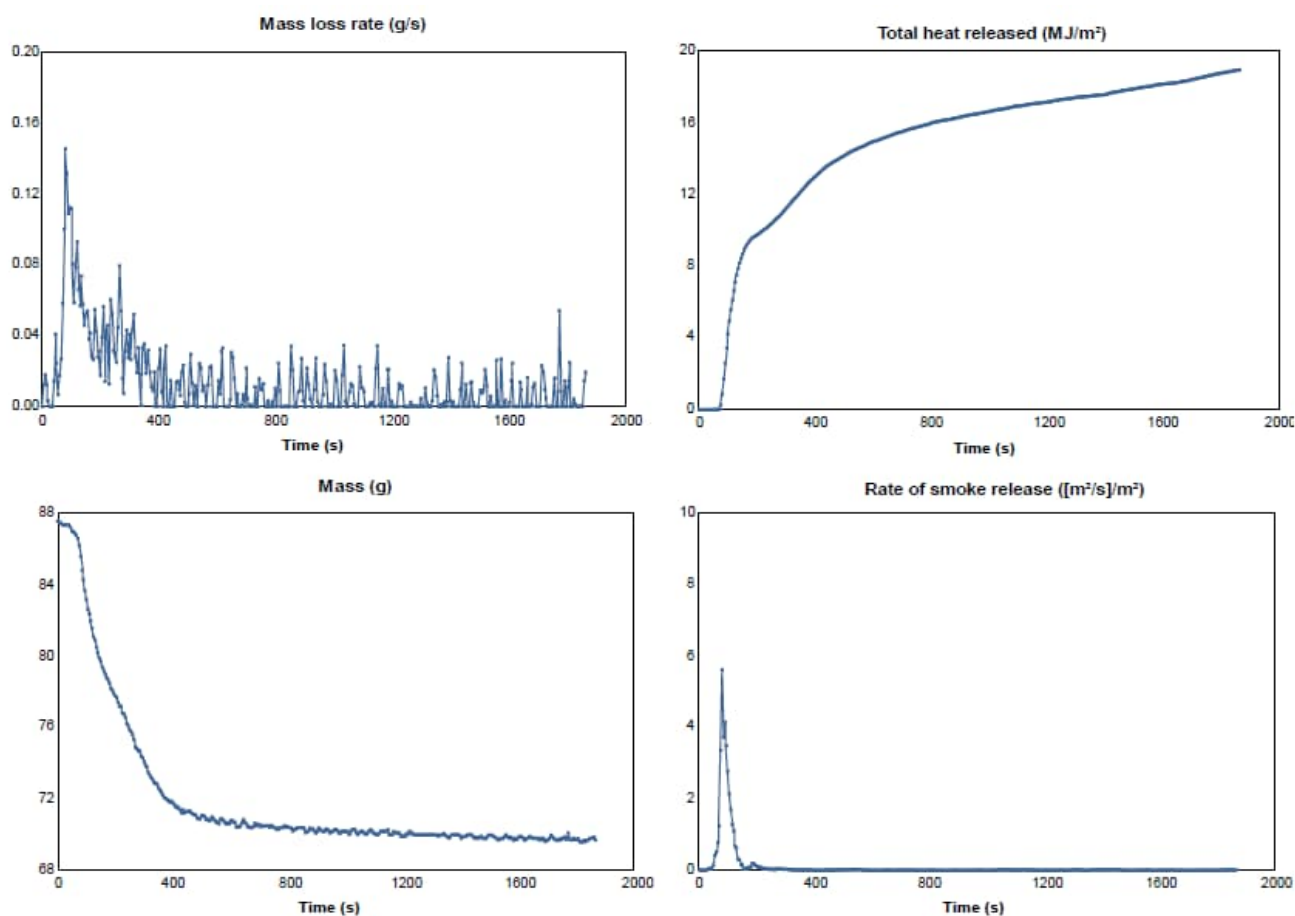
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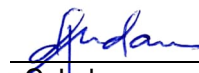
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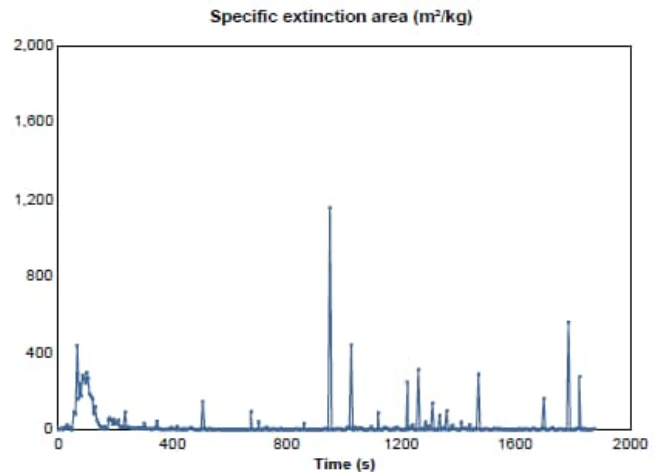
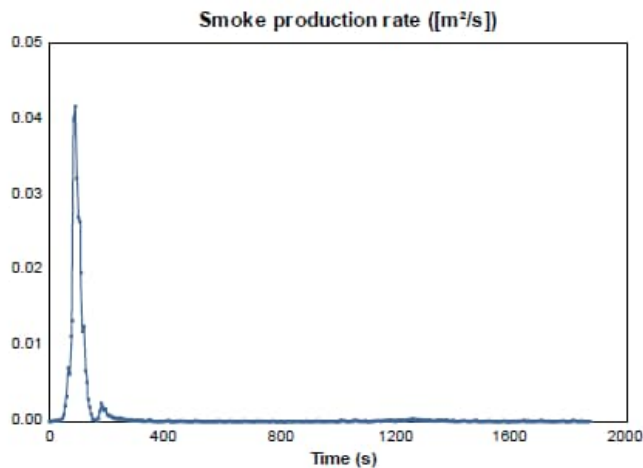
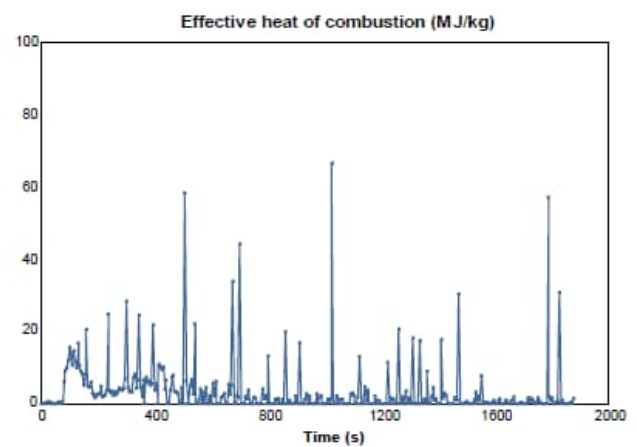
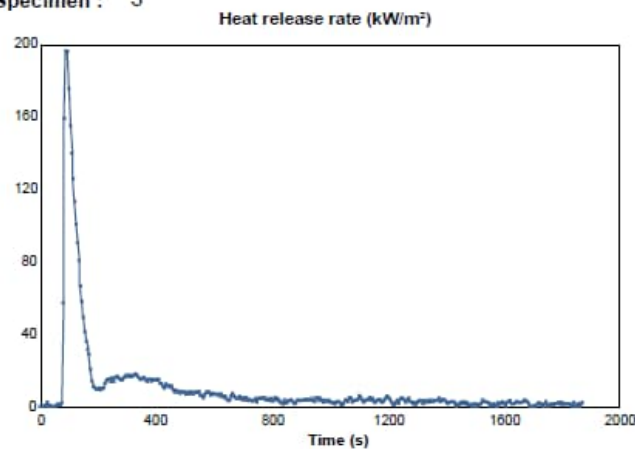
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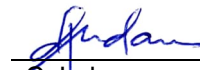
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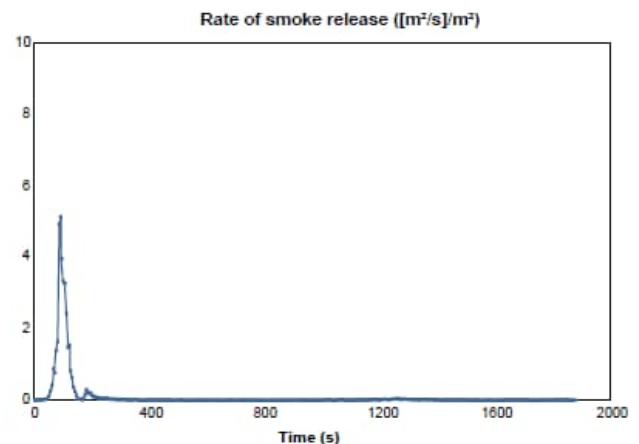
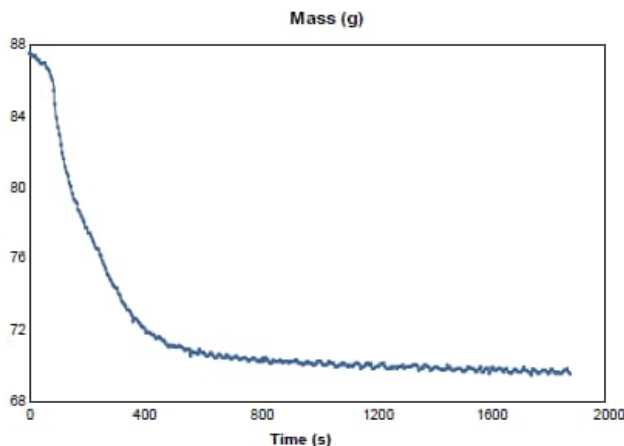
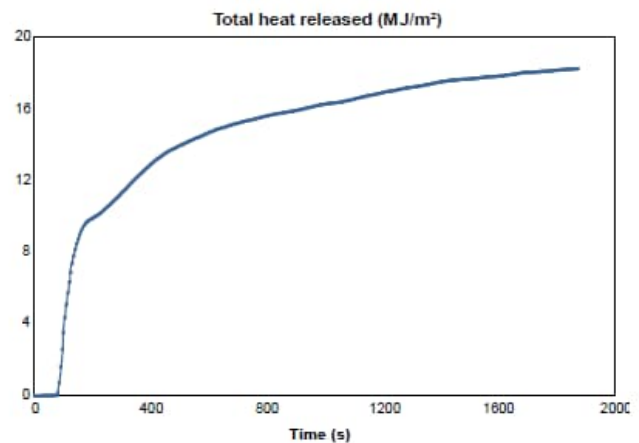
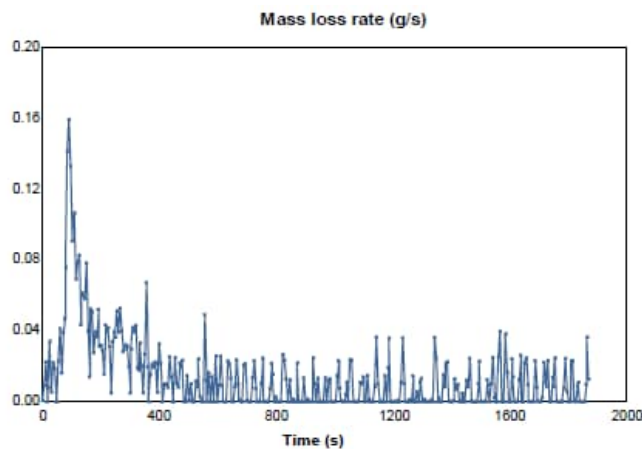
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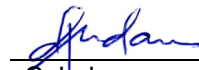
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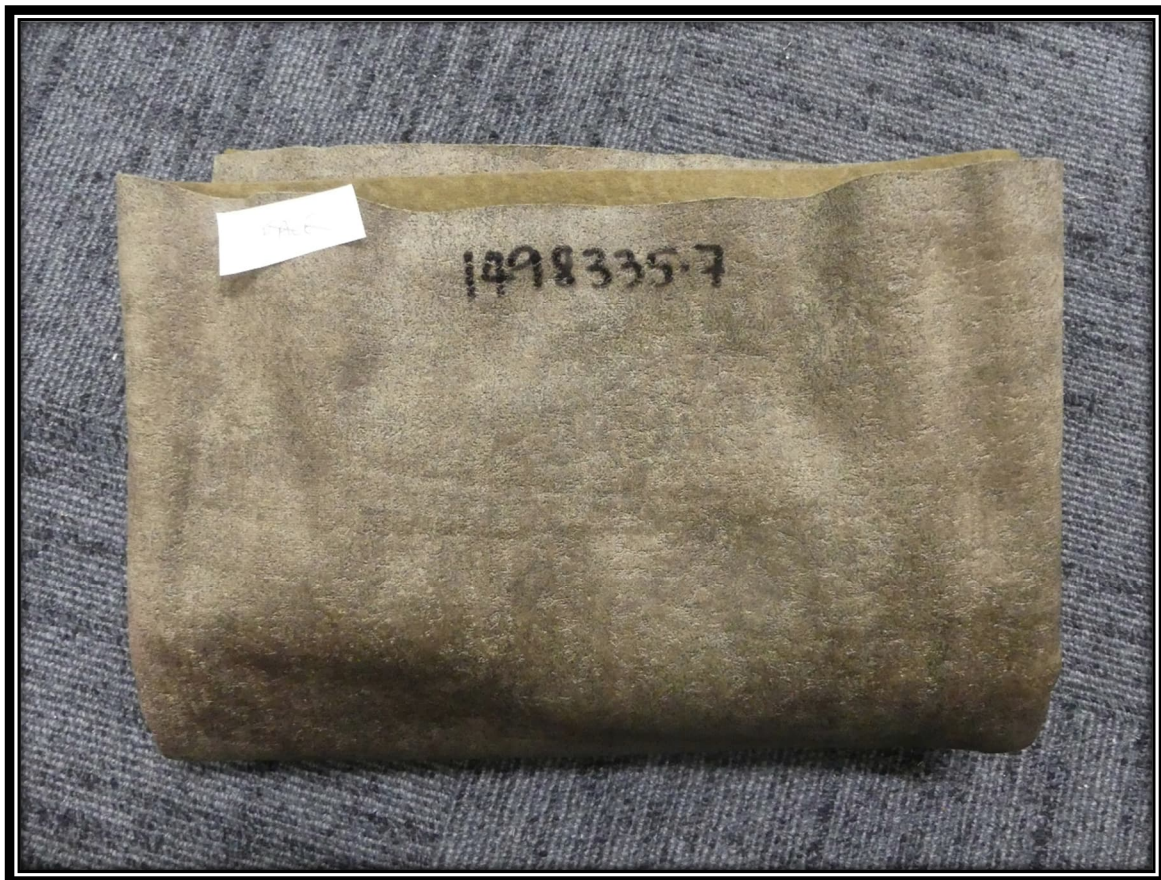
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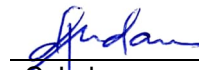
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