Australian Wool Testing Authority Ltd - trading as AWTA Product Testing A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031 P.O Box 240, North Melbourne, Victoria 3051 Phone (03) 9371 2400

Client:

NSW Department of Planning Housing and Infrastructure Issued under the Environmental Planning and Assessment Act 1979 Approved Application No DA 24-1858 Granted on the 10 May 2024 M Brown Signed Sheet No

#### TEST REPORT

**Test Number** 

20-005673

**Issue Date** 

05/11/2020

**Print Date** 

5/11/2020

Sample Description

Clients Ref:

Composite Decking

Colour: Various

End Use: Outdoor Decking

Wood/Polyethylene/Additives Nominal Composition:

25mm Nominal Thickness:

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen

Consumption Calorimeter

Date Tested

29/10/2020

Face Tested

Vanous

1	
nnn	IMA
いこし	imer

1	2	3	Mean	
fti	fti	fti	fti	

Average Heat Release Rate Average Specific extinction area

164.6

(according to Specification C1.10 of the Building Code of Australia)

248.5

Specimen

494.5

302.5

m<sup>2</sup>/kg

kW/m<sup>2</sup>

Test orientation:

Horizontal

	1	2	3	Mean	
Irradiance	25	25	25	25	kW/m²
Exhaust flow rate	0.024	0.024	0.024	0.024	m³/s
Time to sustained flaming	fti	fti	fti	fti	sec
Test duration	600	600	600	600	sec
Initial thickness	25	25	25	25.0	mm
Initial mass	311	321.6	326.9	319.8	g
Mass remaining	309.1	320.5	326.0	318.6	g
Mass percentage pyrolysed	0.6	0.3	0.3	0.4	%

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the Managing Director of AWTA Ltd.

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MIÇHA⊭L A. JACKSON B.Sc.(Hons) MANAGING DIRECTOR

APPROVED SIGNATORY

0204/11/06



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#### TEST REPORT

**Client:** Test Number: 20-005673

Issue Date : 05/11/2020

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Mass loss 228.9 136.7 109.6 158.4 kg/m<sup>2</sup>

Average rate of mass loss 0.4 0.2 0.2 0.3 g/m².s

Additional Observations None

Difficulties Encountered during Testing None

fti = failed to ignite

Tests were conducted with a wire grid placed over the sample during testing.

This was done to contain intumescing sample within the sample holder.

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for

assessment of performance under real fire conditions.

Specimens tested failed to ignite within 10 minutes and testing was ceased as

per section 2.5.2(i).

Tests were conducted with an Irradiance of 25kW/m2. All calculations are

based on ignition +10 minutes as per AS 3959 Appendix F.

Compliance to AS 3959-2018 Appendix F2

Requirement: Peak heat release rate 100kW/m2 maximum.

Average heat release rate for 10 minutes following ignition shall not be greater

than 60kW/m2

Complies

Compliance to AS 3959- 2018, Clause 7.7.2.4 BAL 29- Decking, stair treads and the trafficable

surfaces of ramps and landings

Complies

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MANAGING DIRECTOR

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#### TEST REPORT

Client: Test Number:

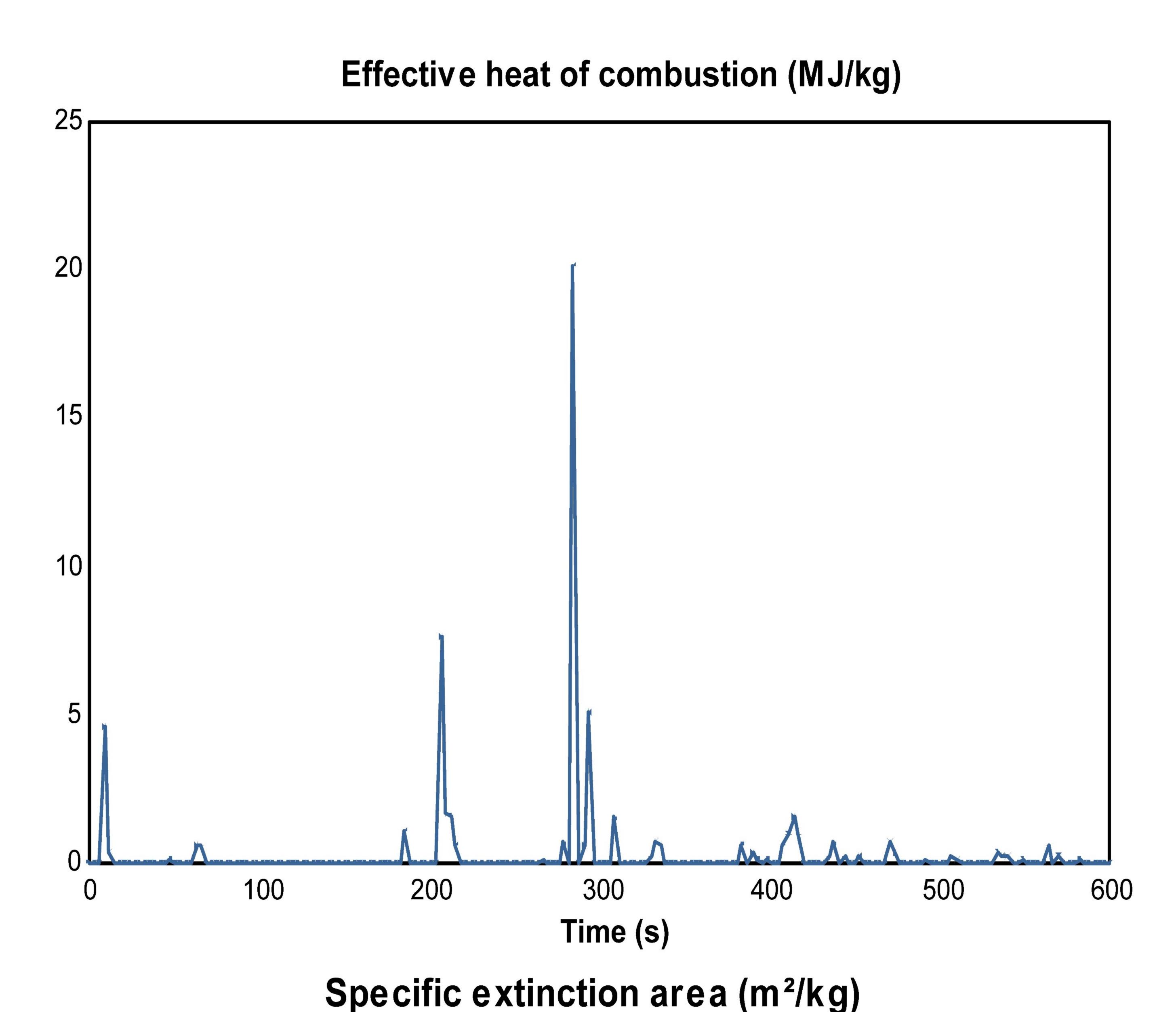
Issue Date : 05/11/2020

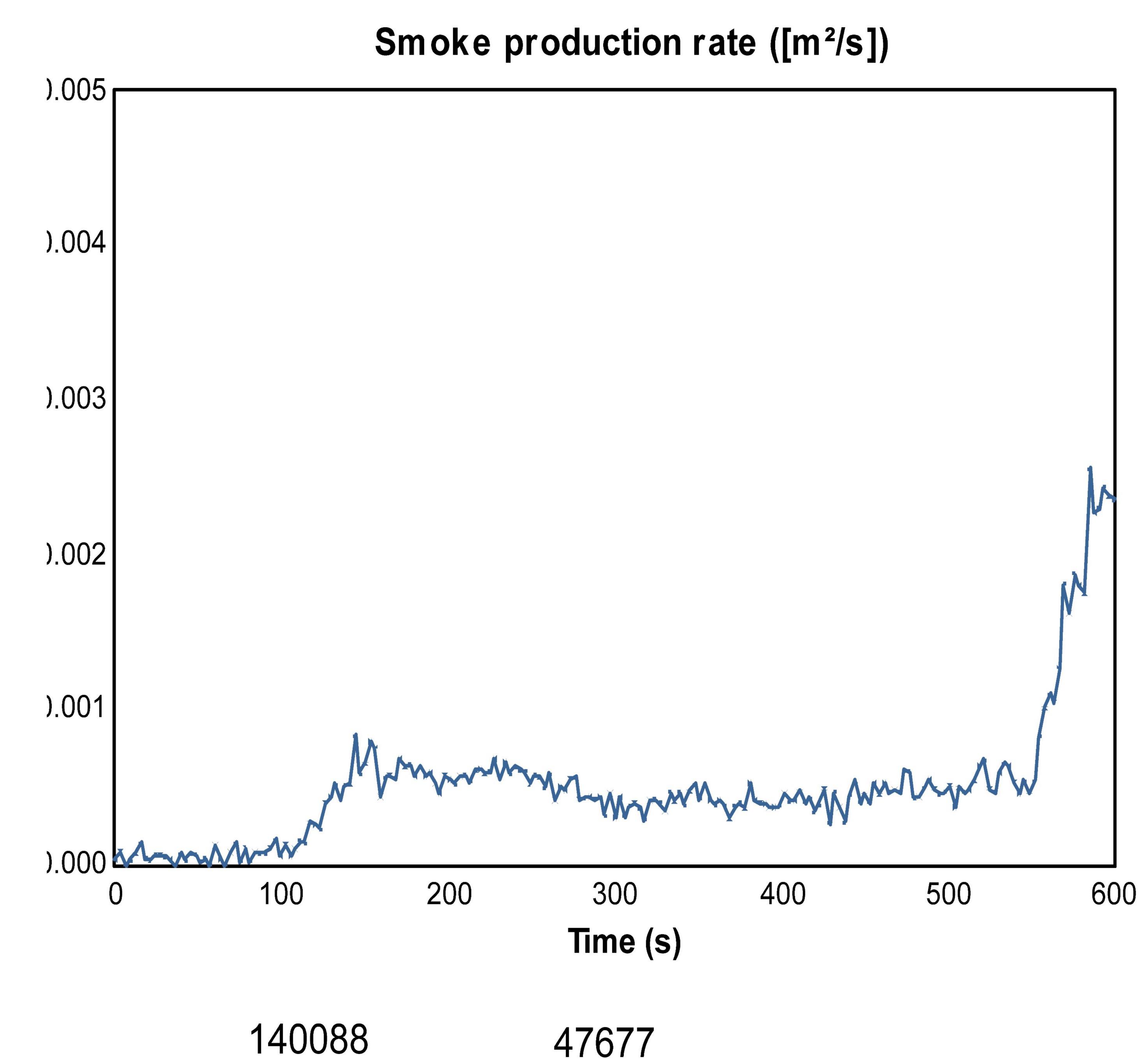
20-005673

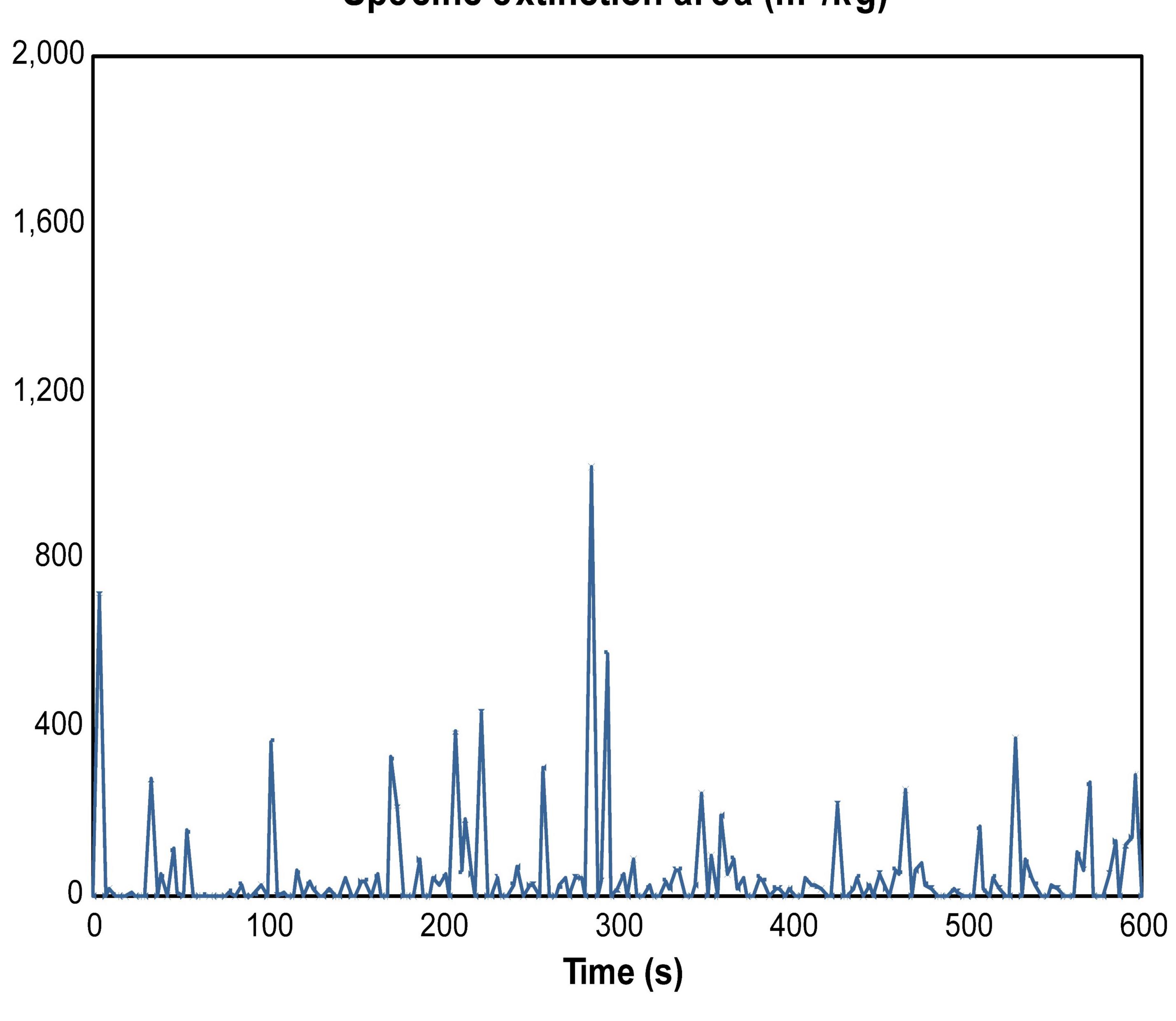
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#### Specimen:

# Heat release rate (kW/m²) 4 3 2 1 0 100 200 300 400 500 600 Time (s)







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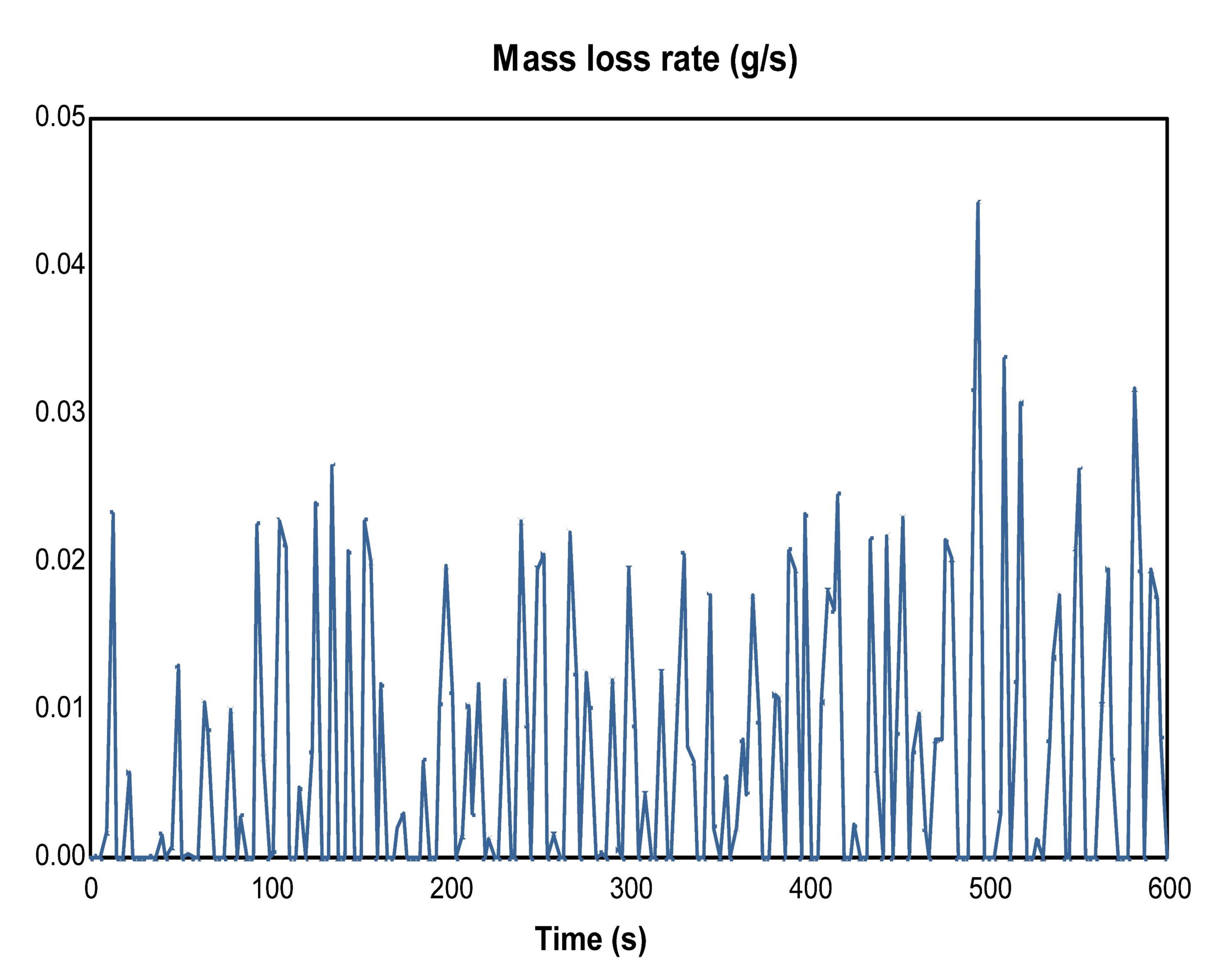
#### TEST REPORT

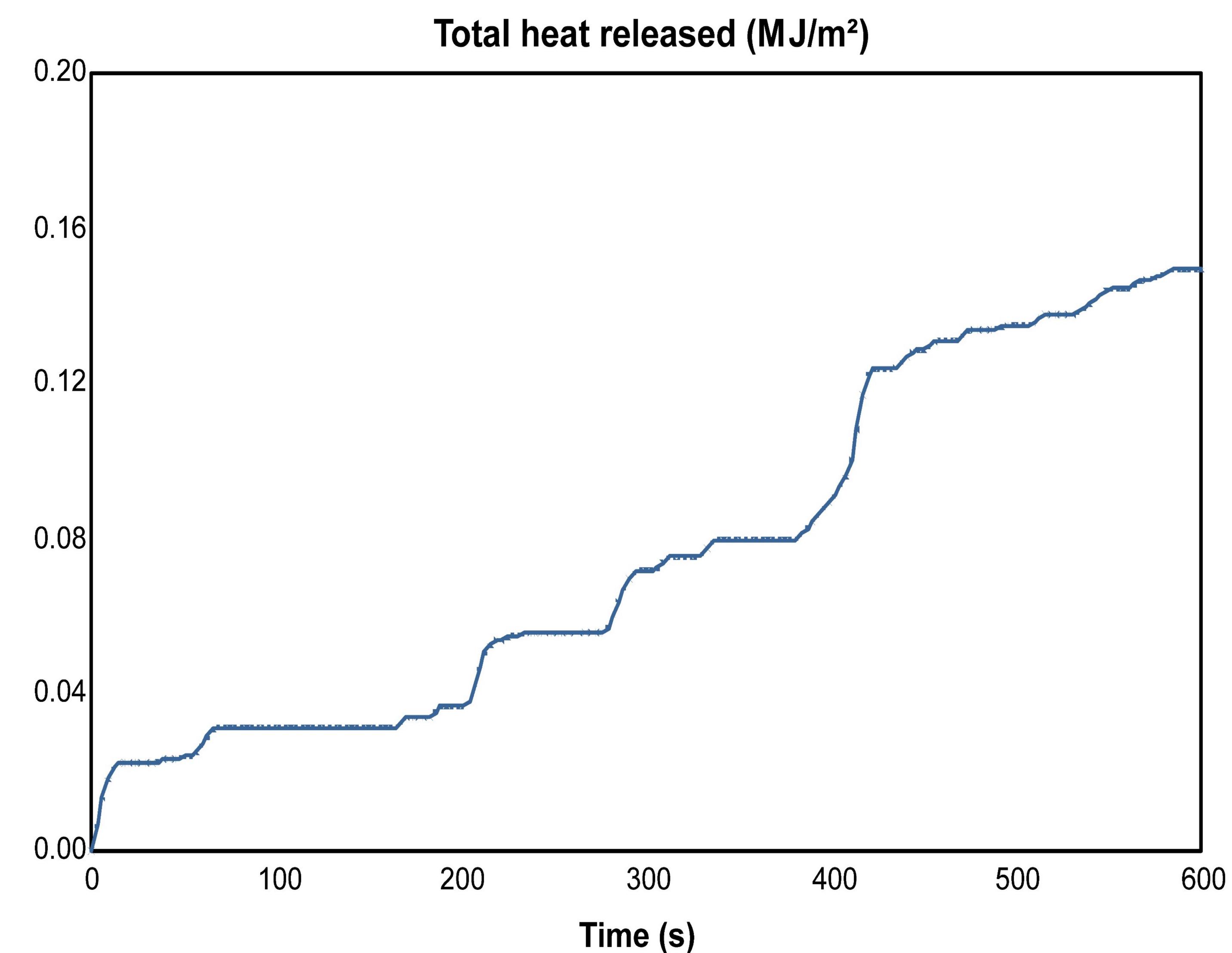
Client: Test Nu

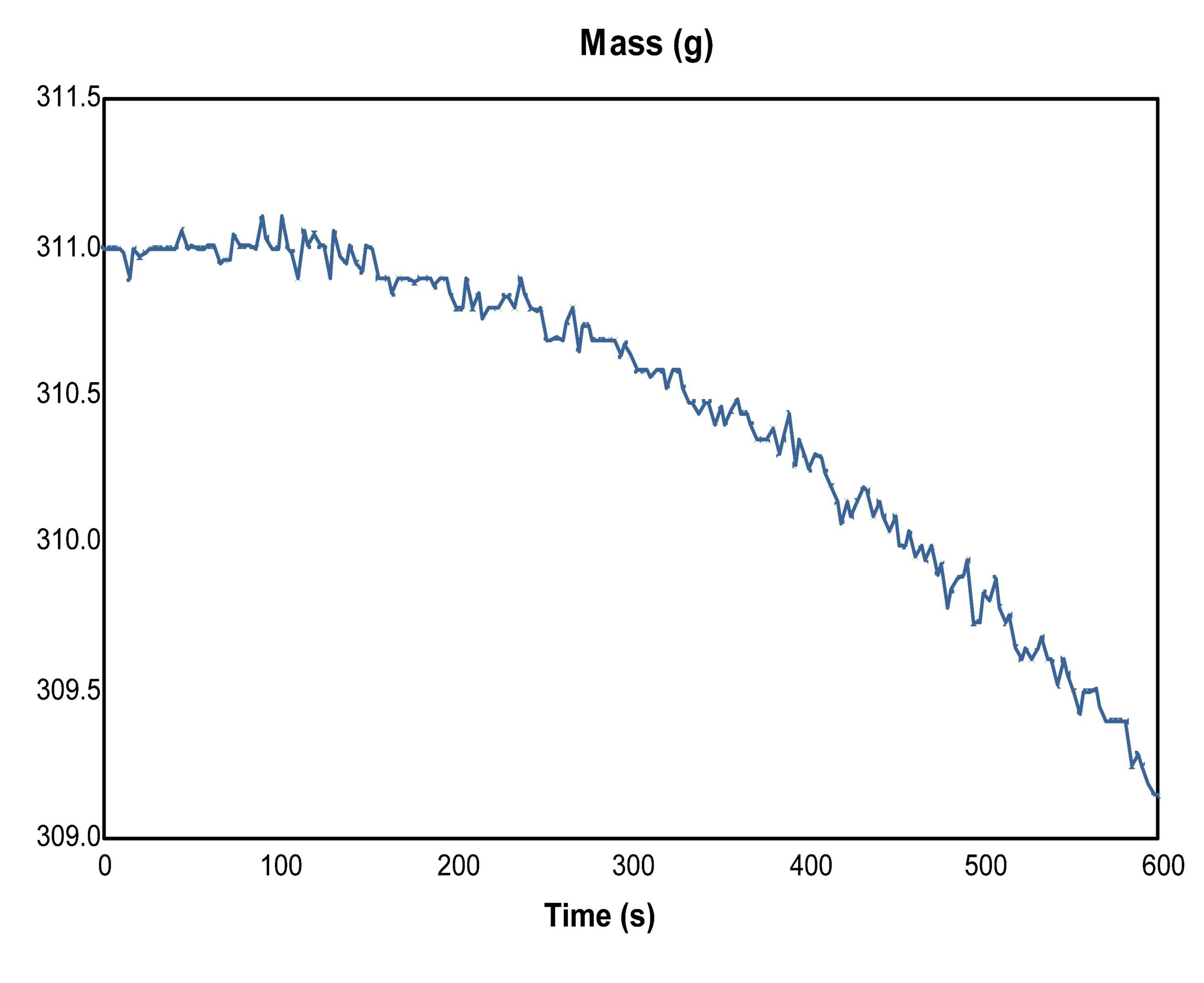
Test Number : 20-005673

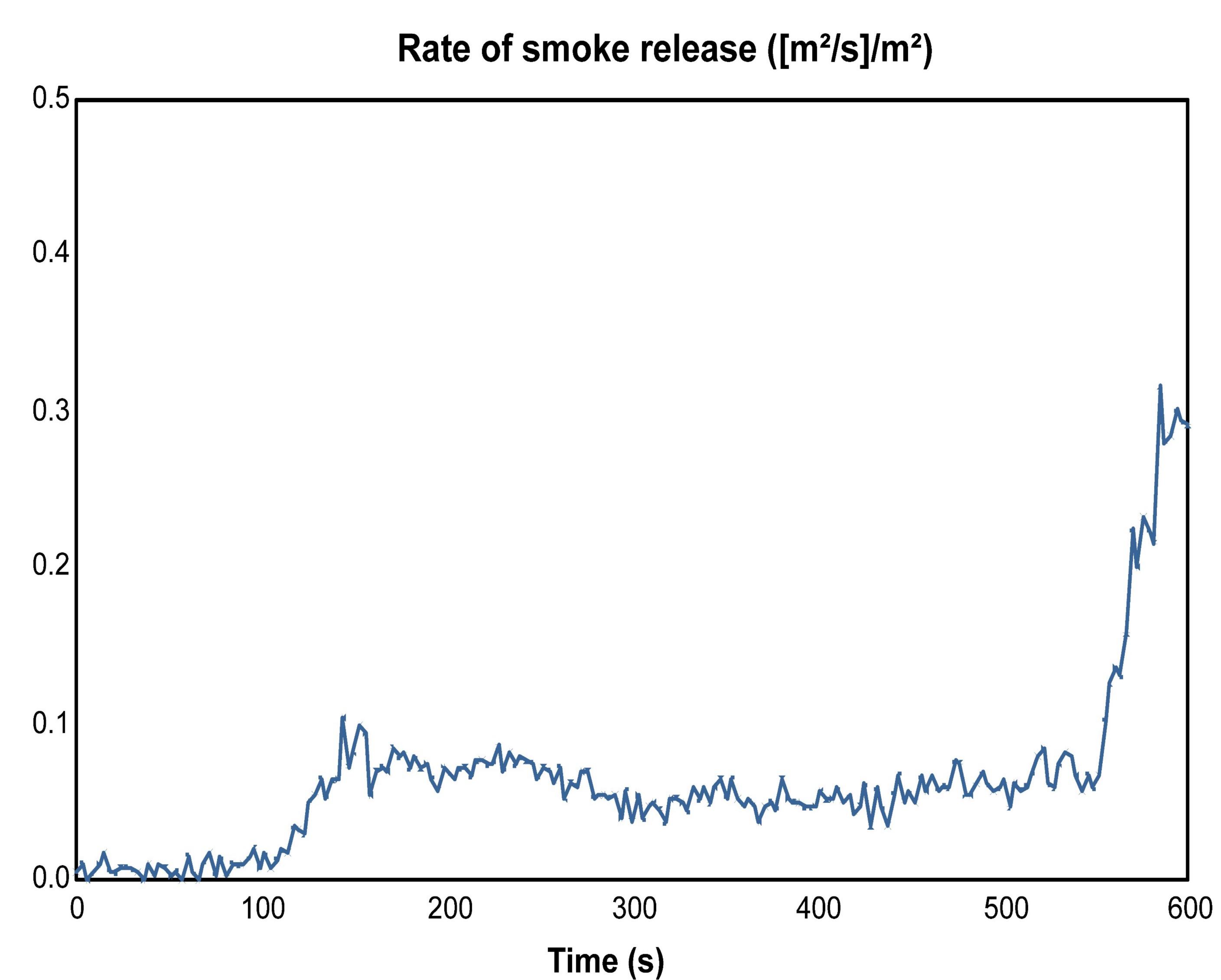
Issue Date : 05/11/2020

**Print Date : 5/11/2020** 









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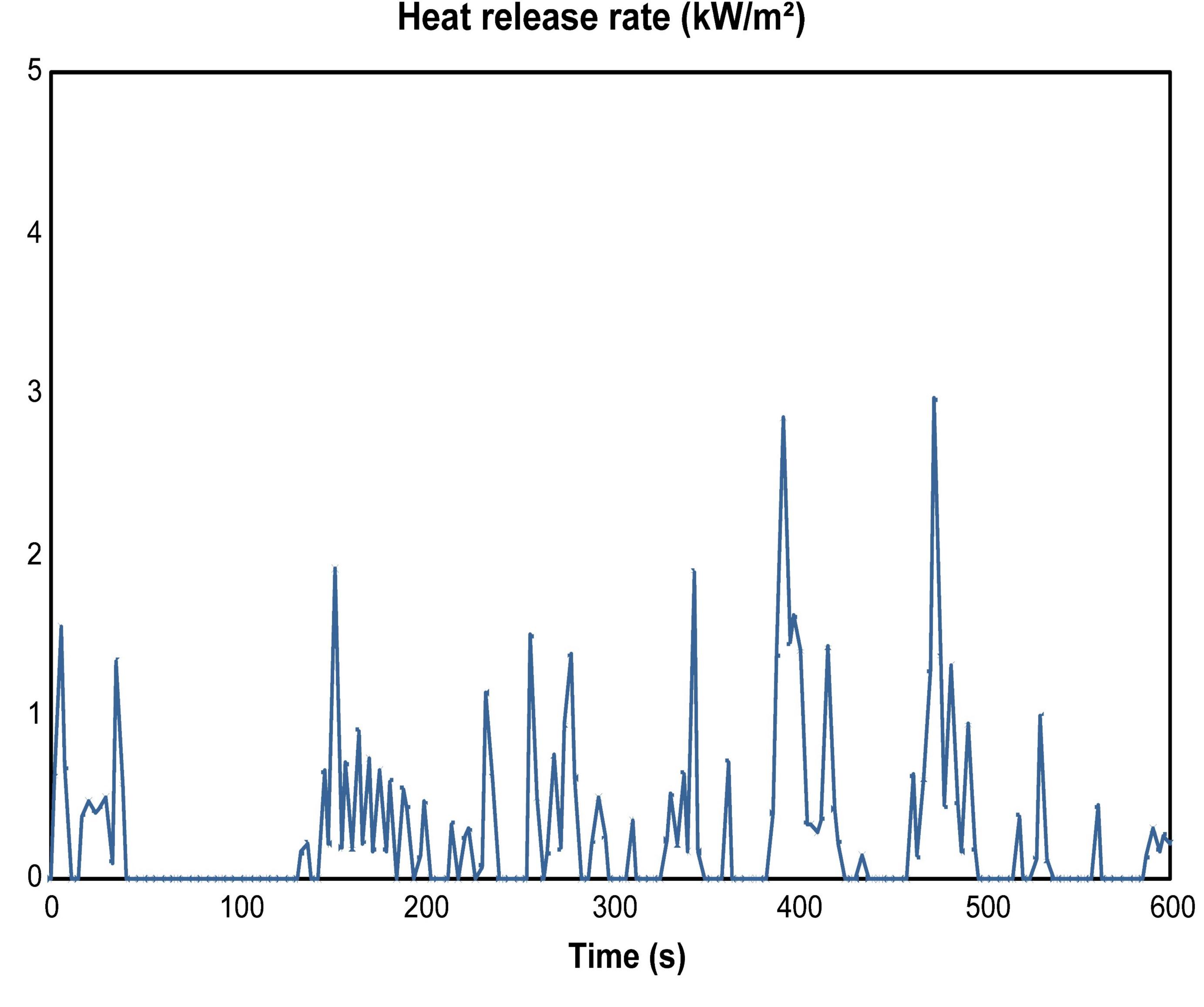
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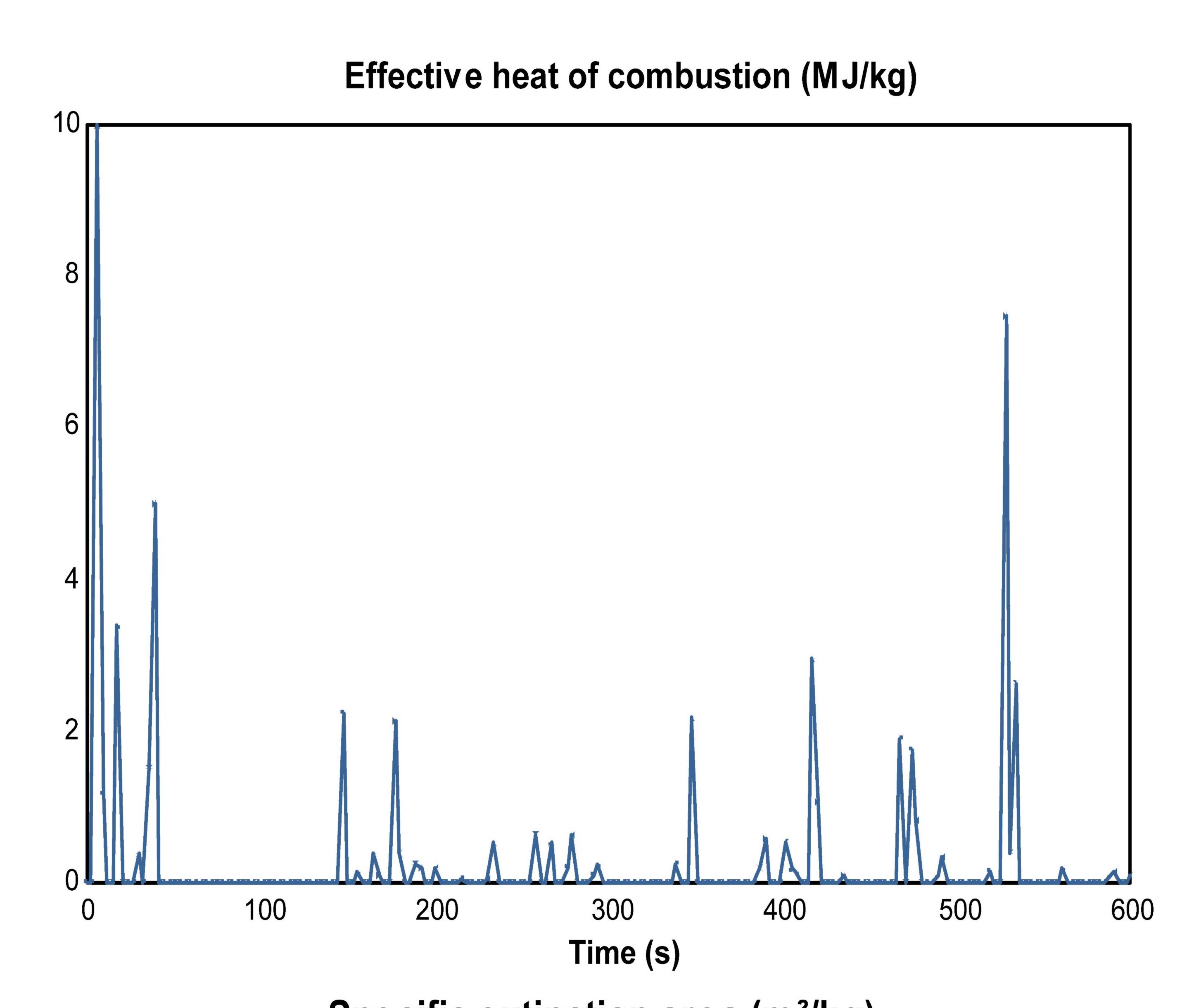
Test Number Client:

> 05/11/2020 **Issue Date** 5/11/2020 **Print Date**

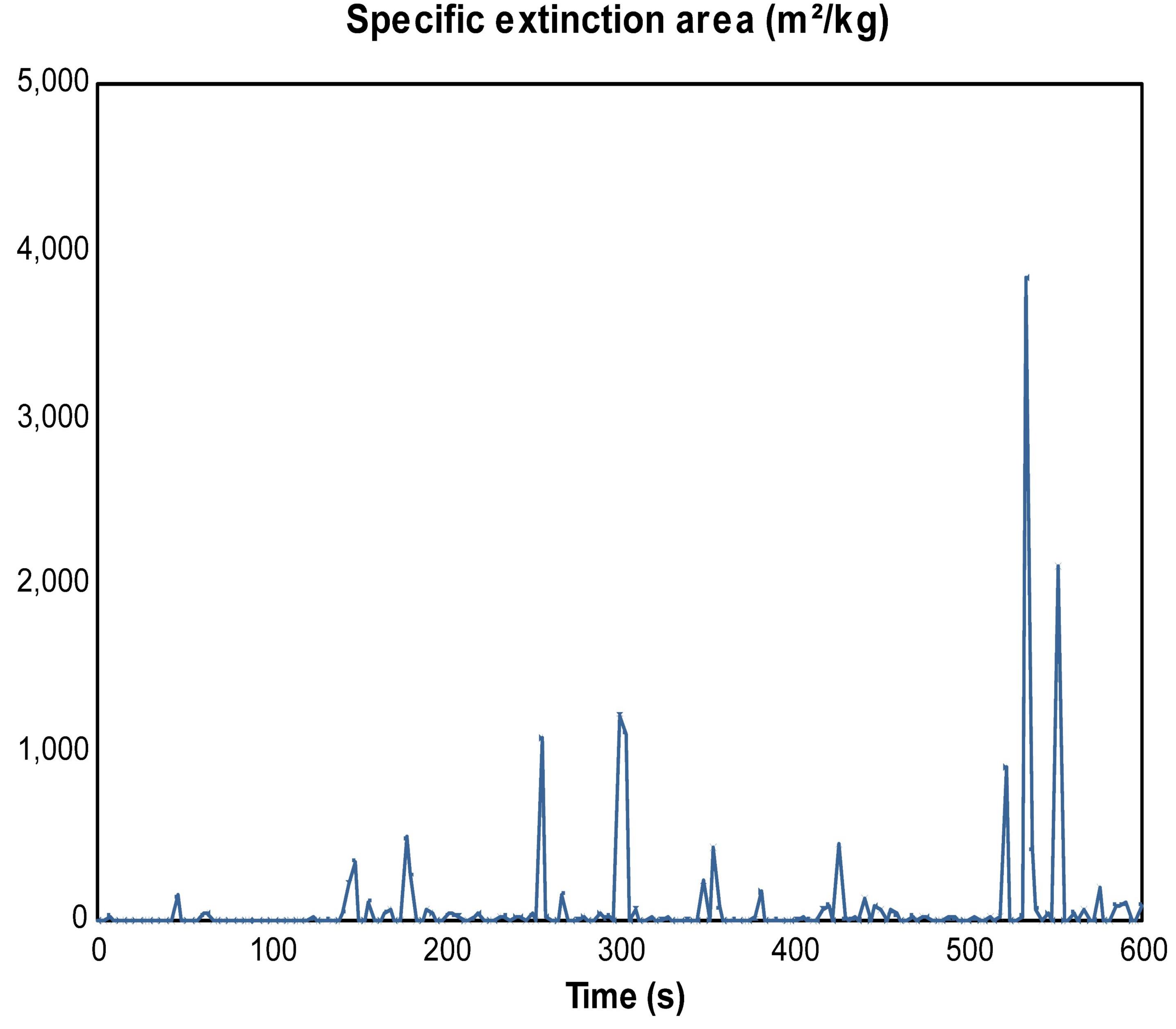
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#### Specimen: 2





### Smoke production rate ([m²/s]) 0025 0020 100 200 300 400 500 600 Time (s)



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20-005673

Mass loss rate (g/s)

0.08

0.06

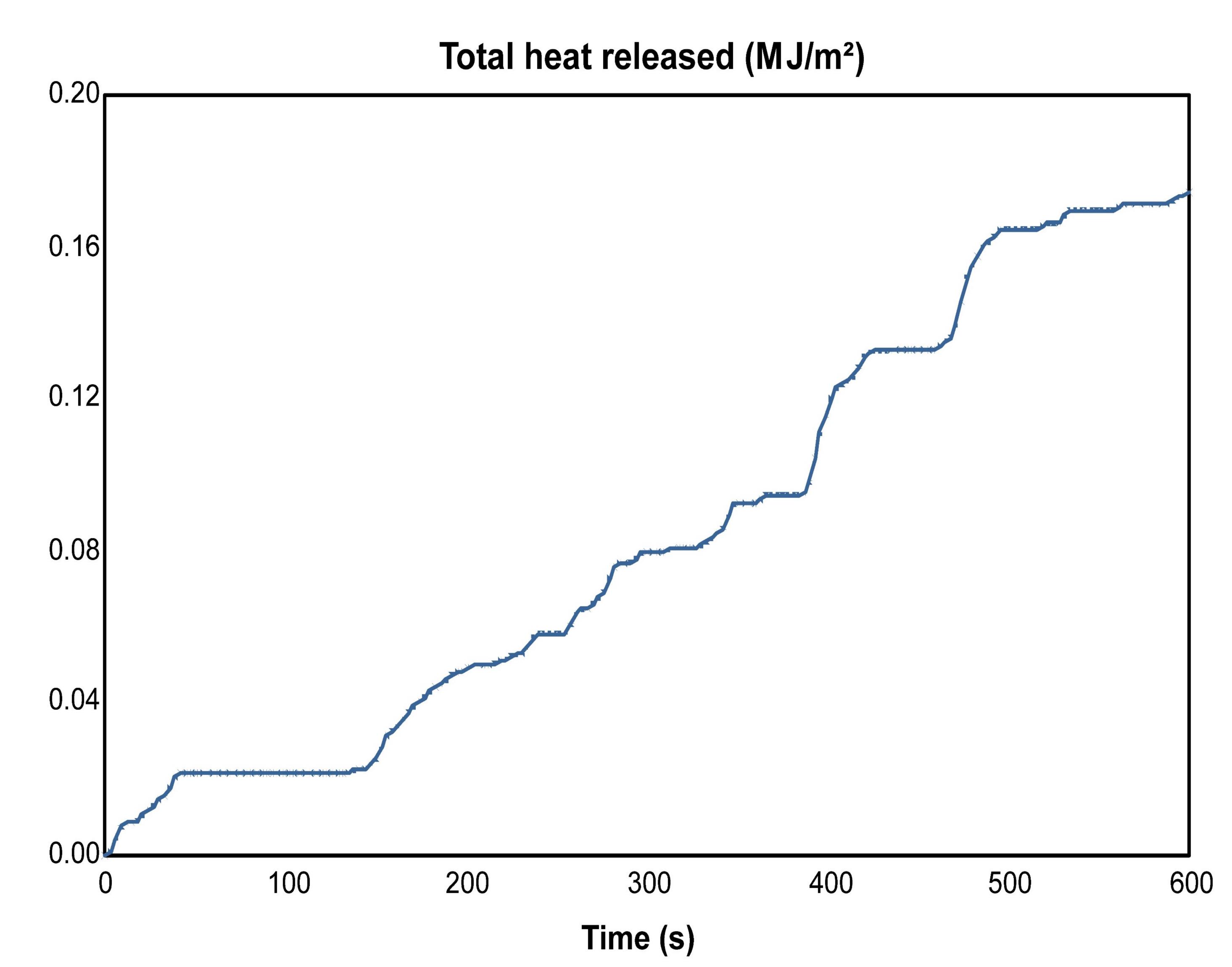
0.04

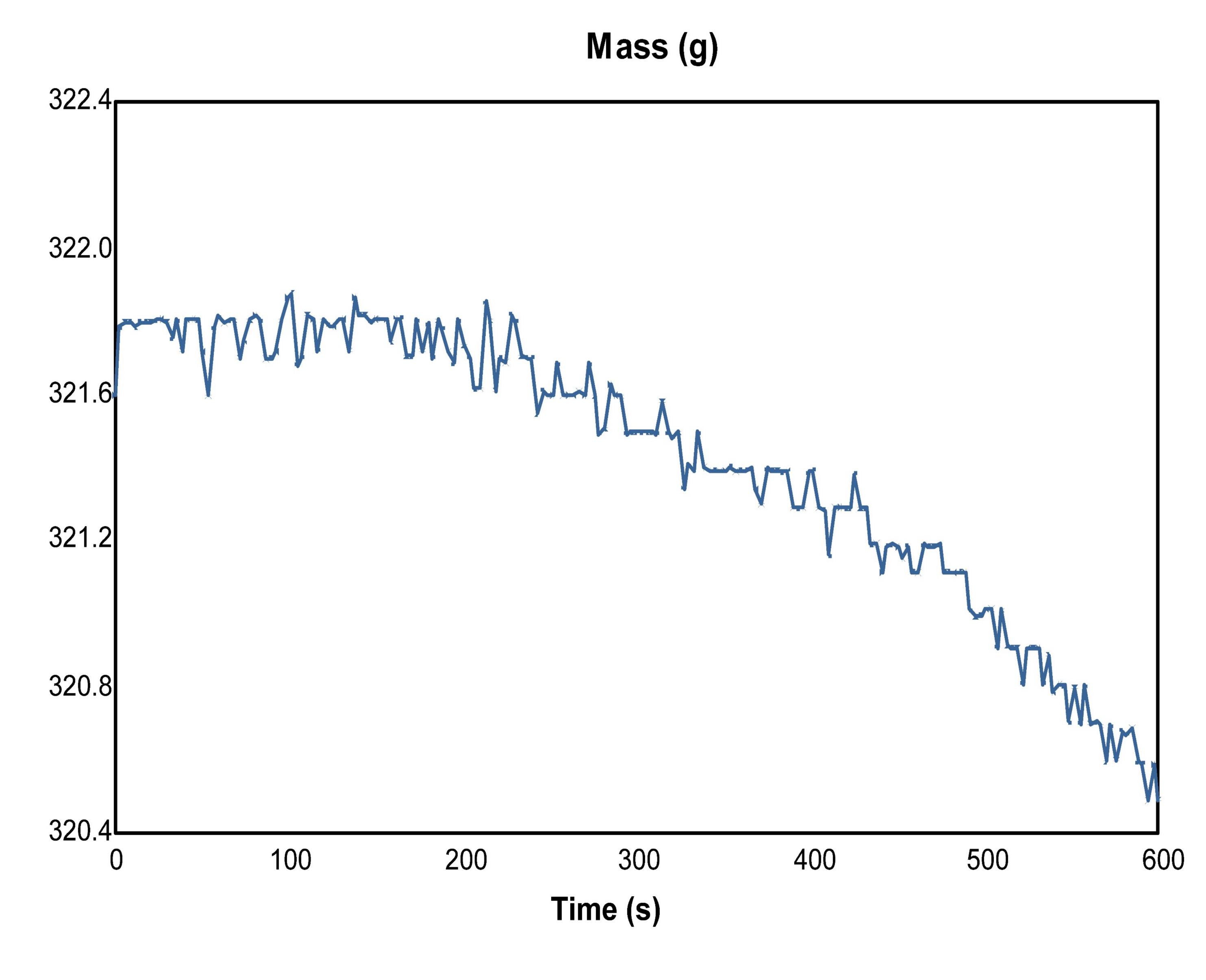
0.02

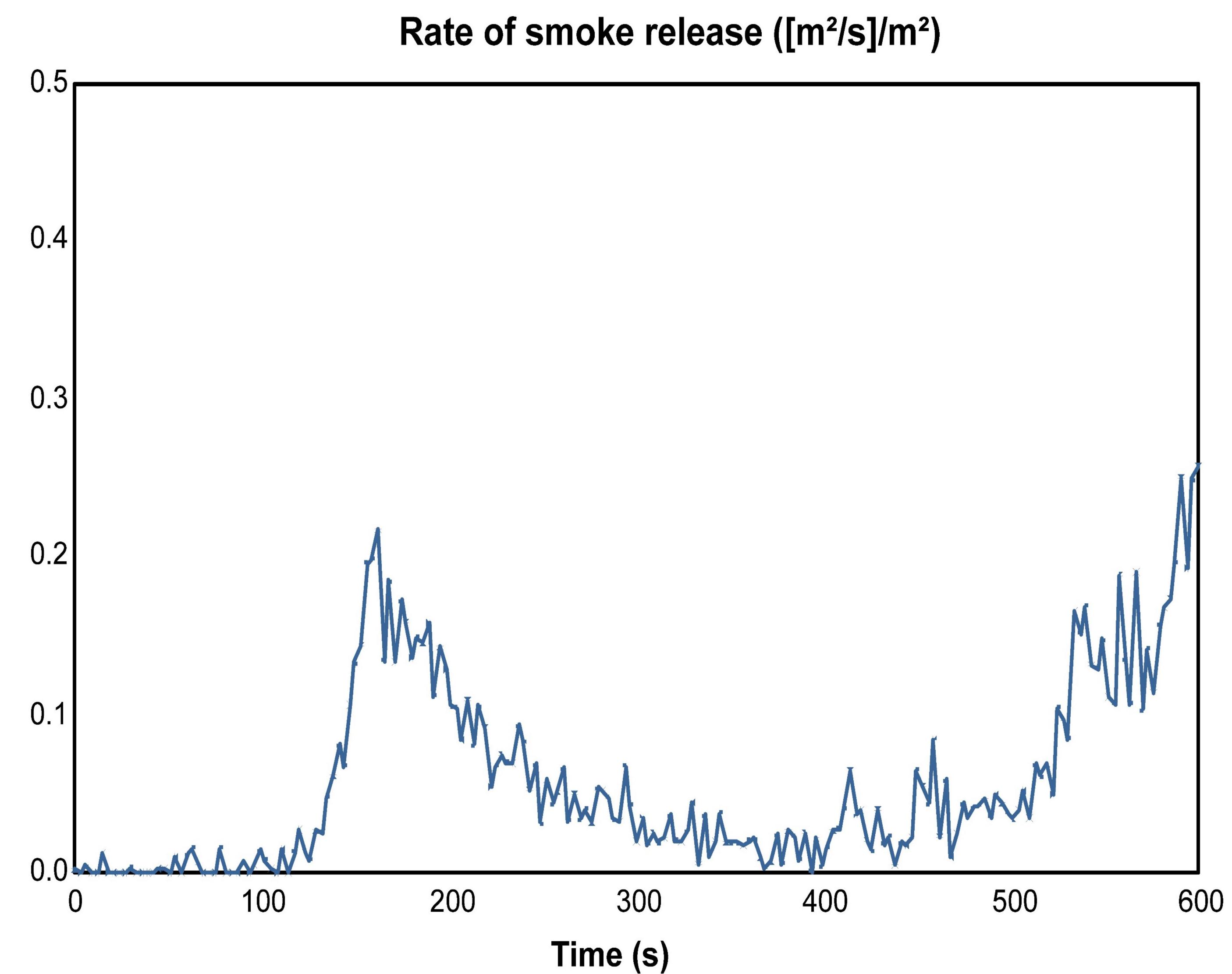
0.00

0 100 200 300 400 500 600

Time (s)







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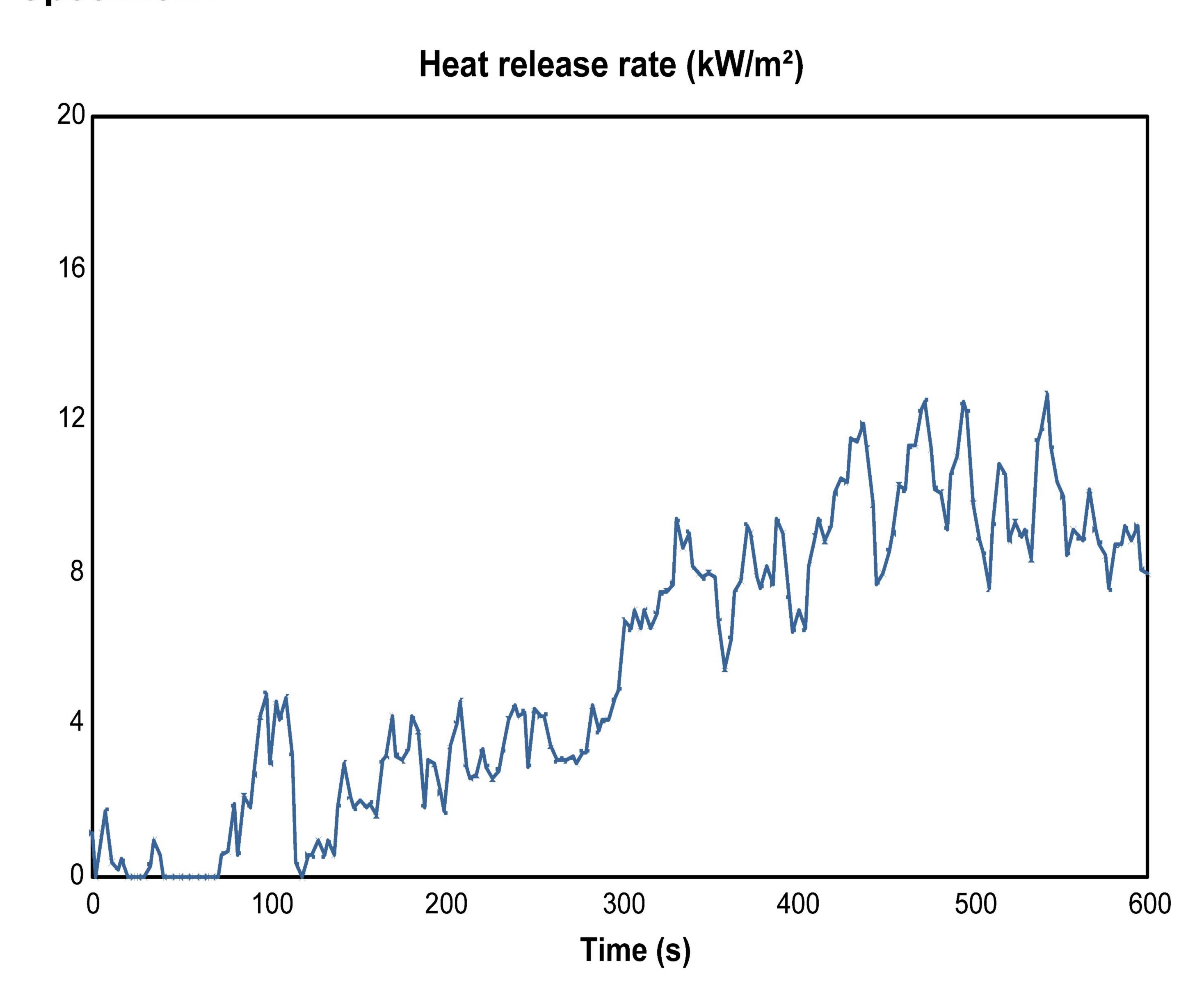
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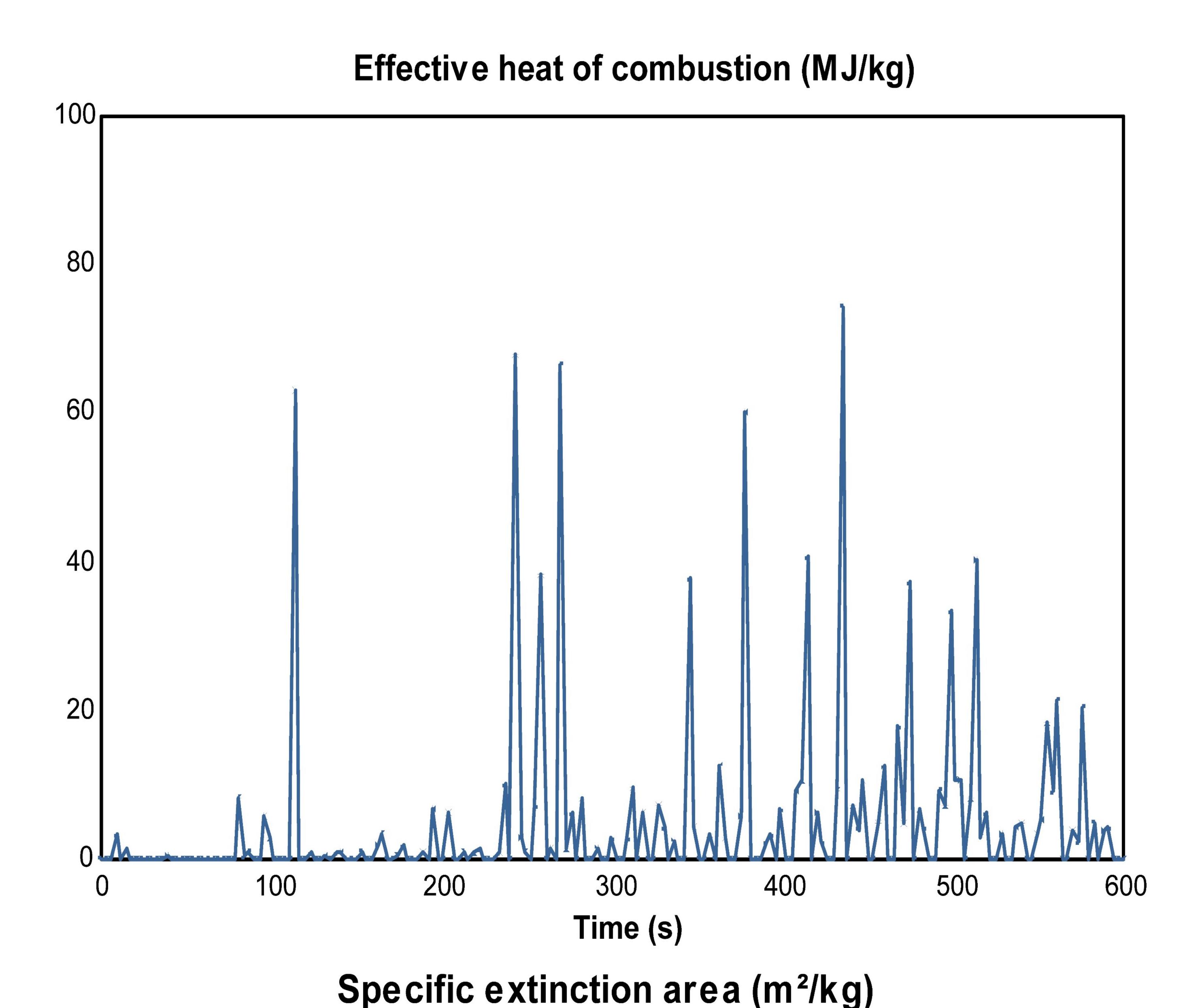
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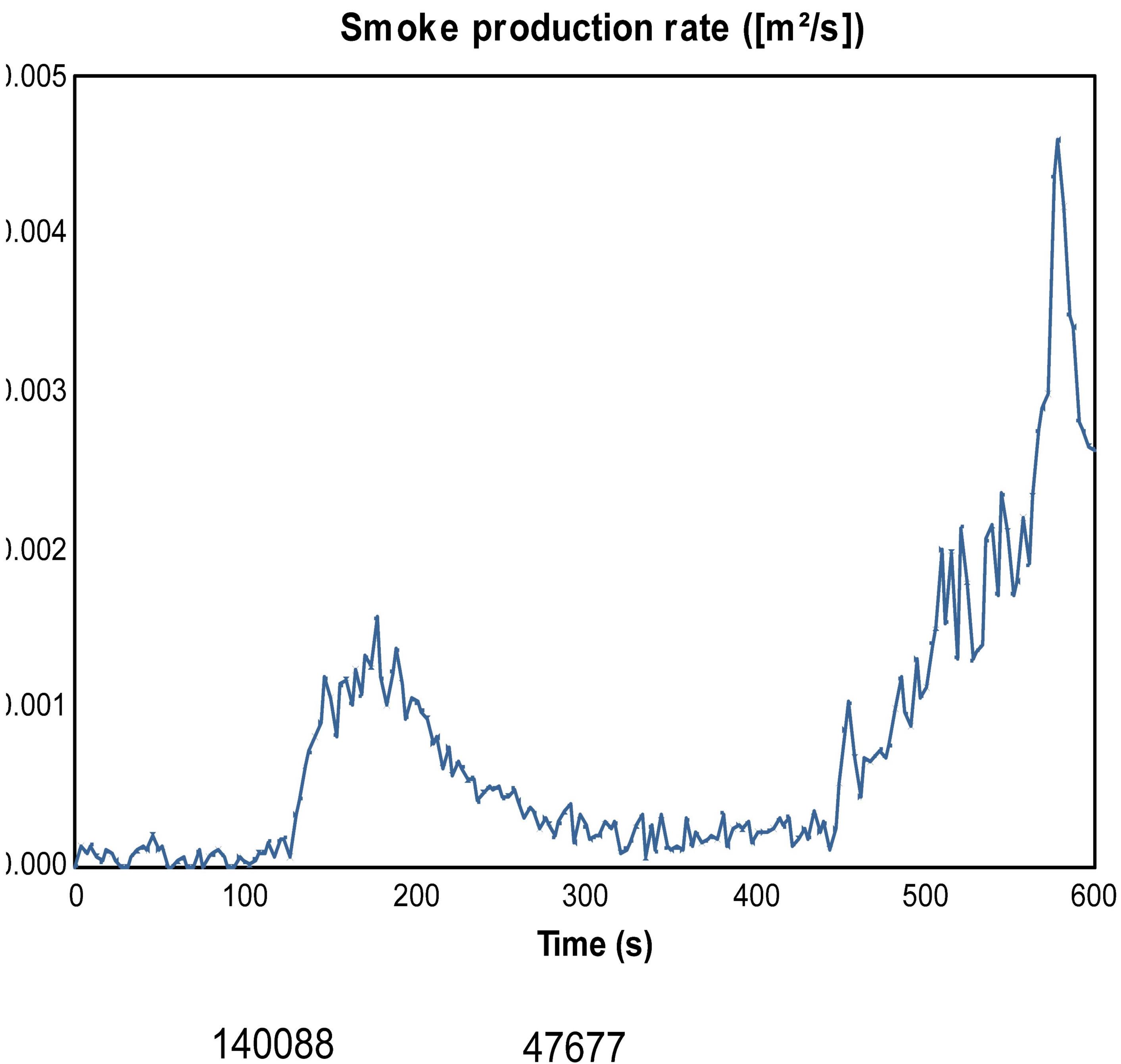
> 05/11/2020 **Issue Date** 5/11/2020 **Print Date**

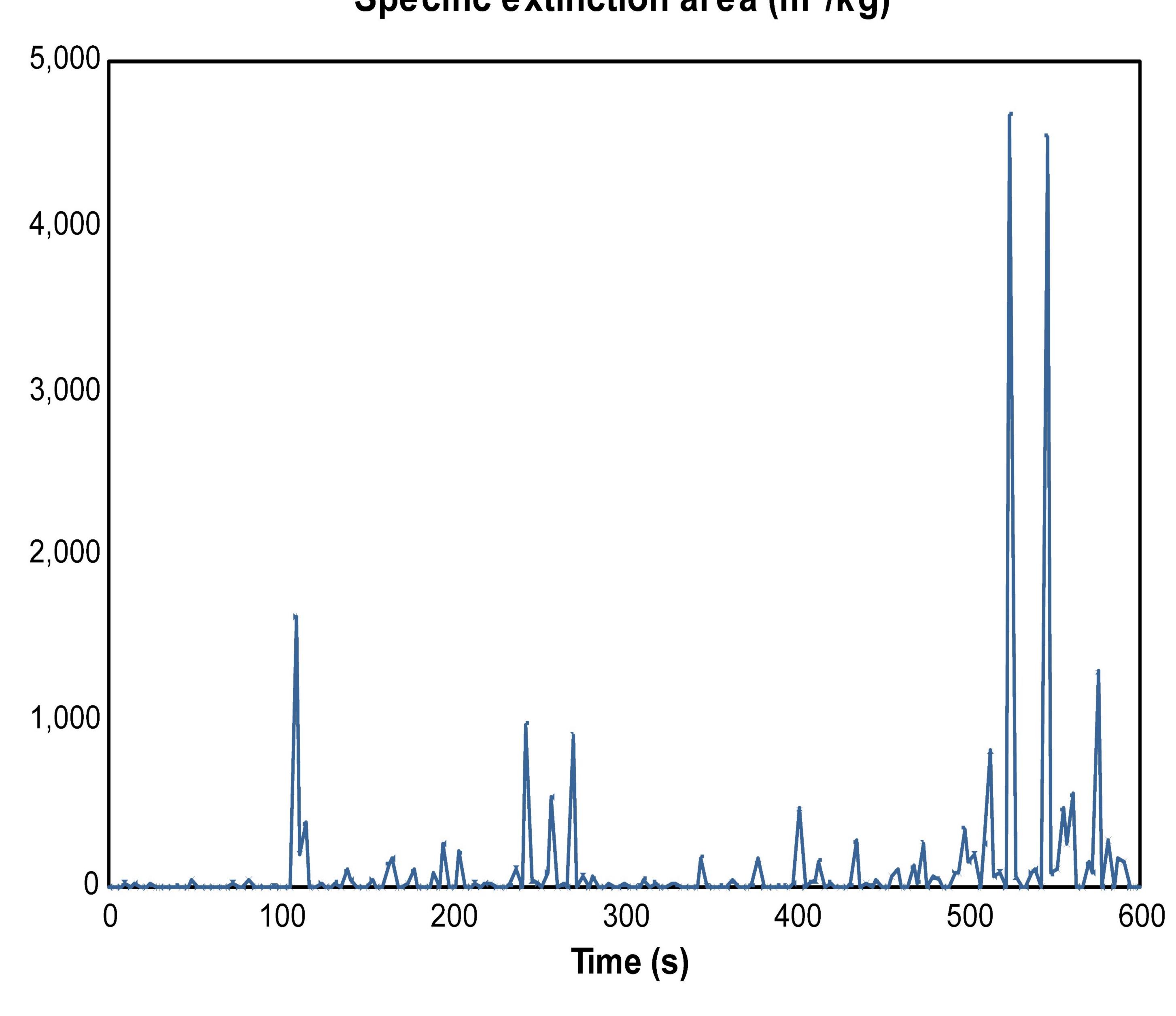
20-005673

Specimen: 3







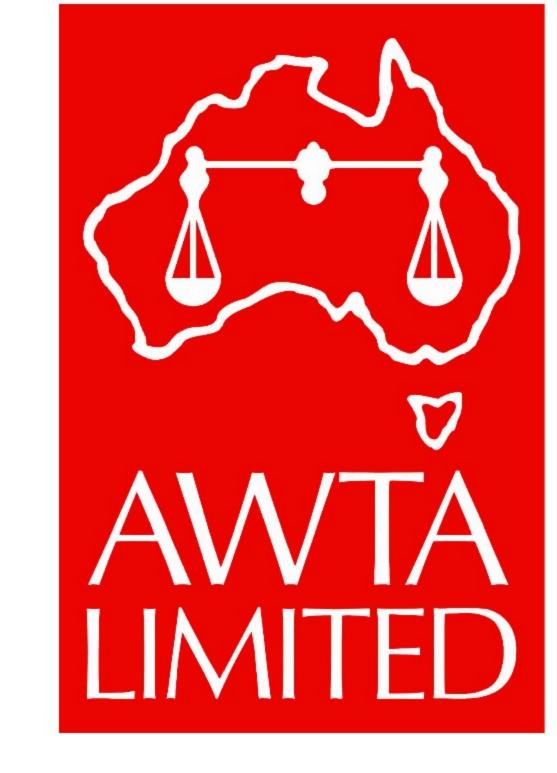


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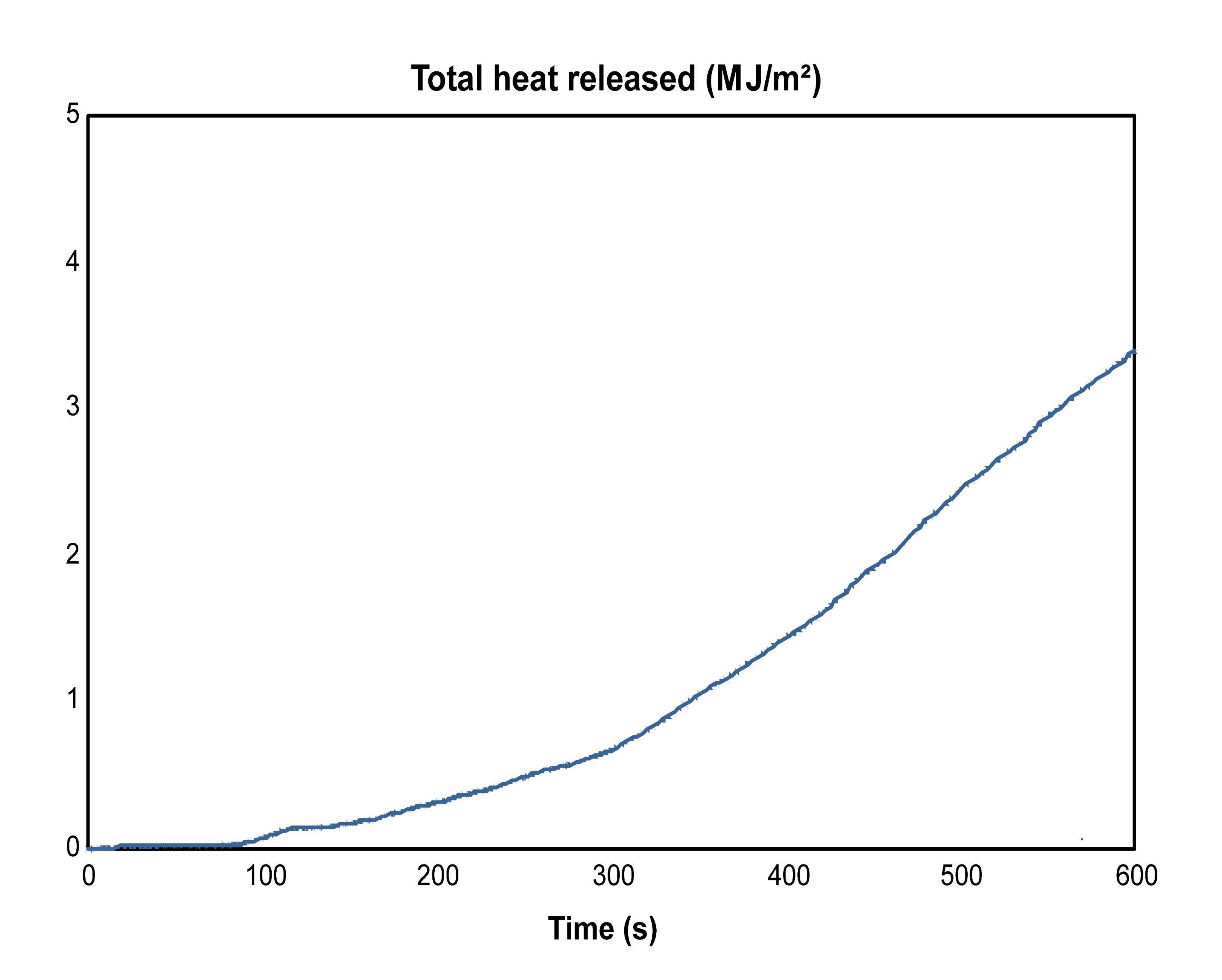
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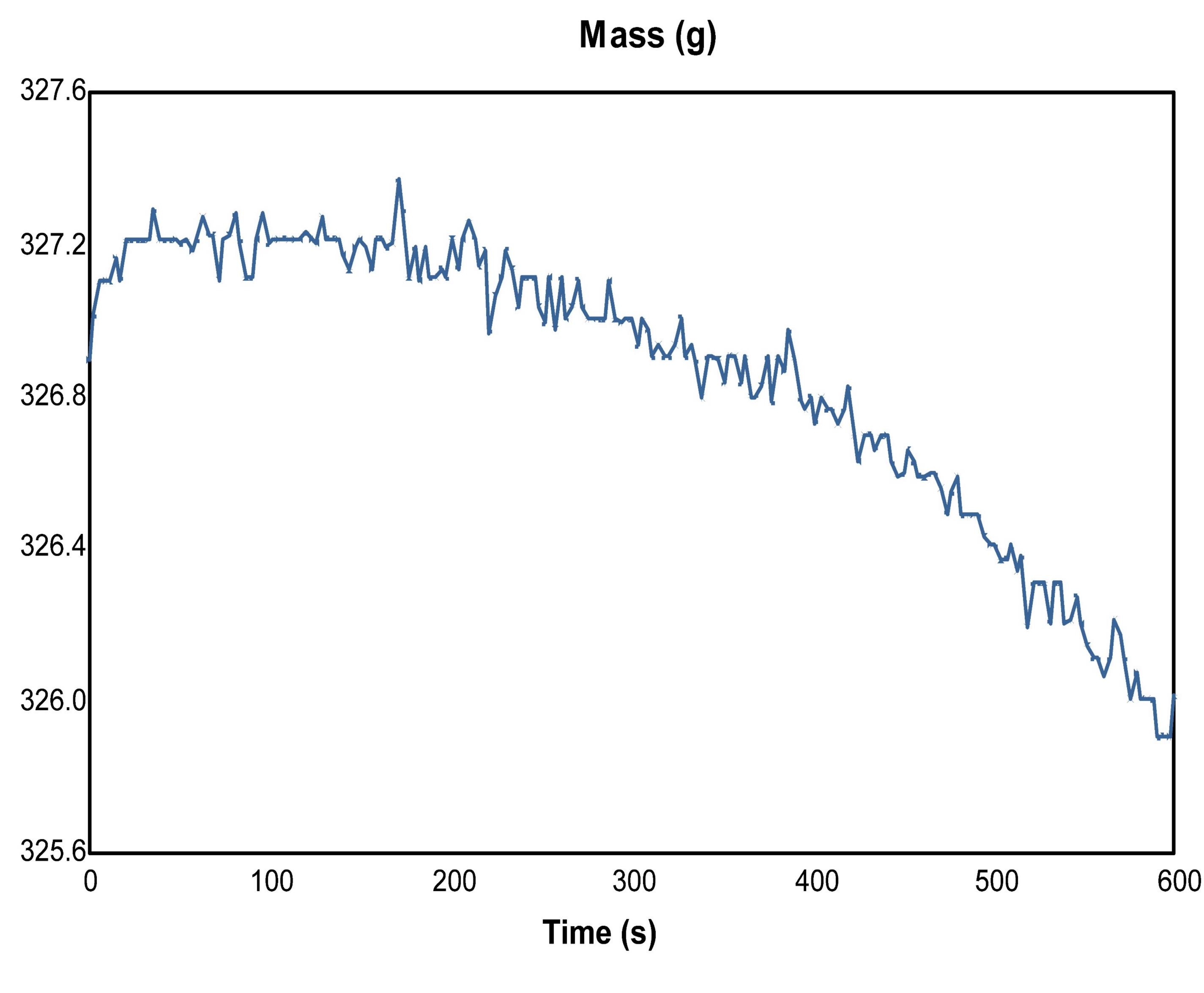
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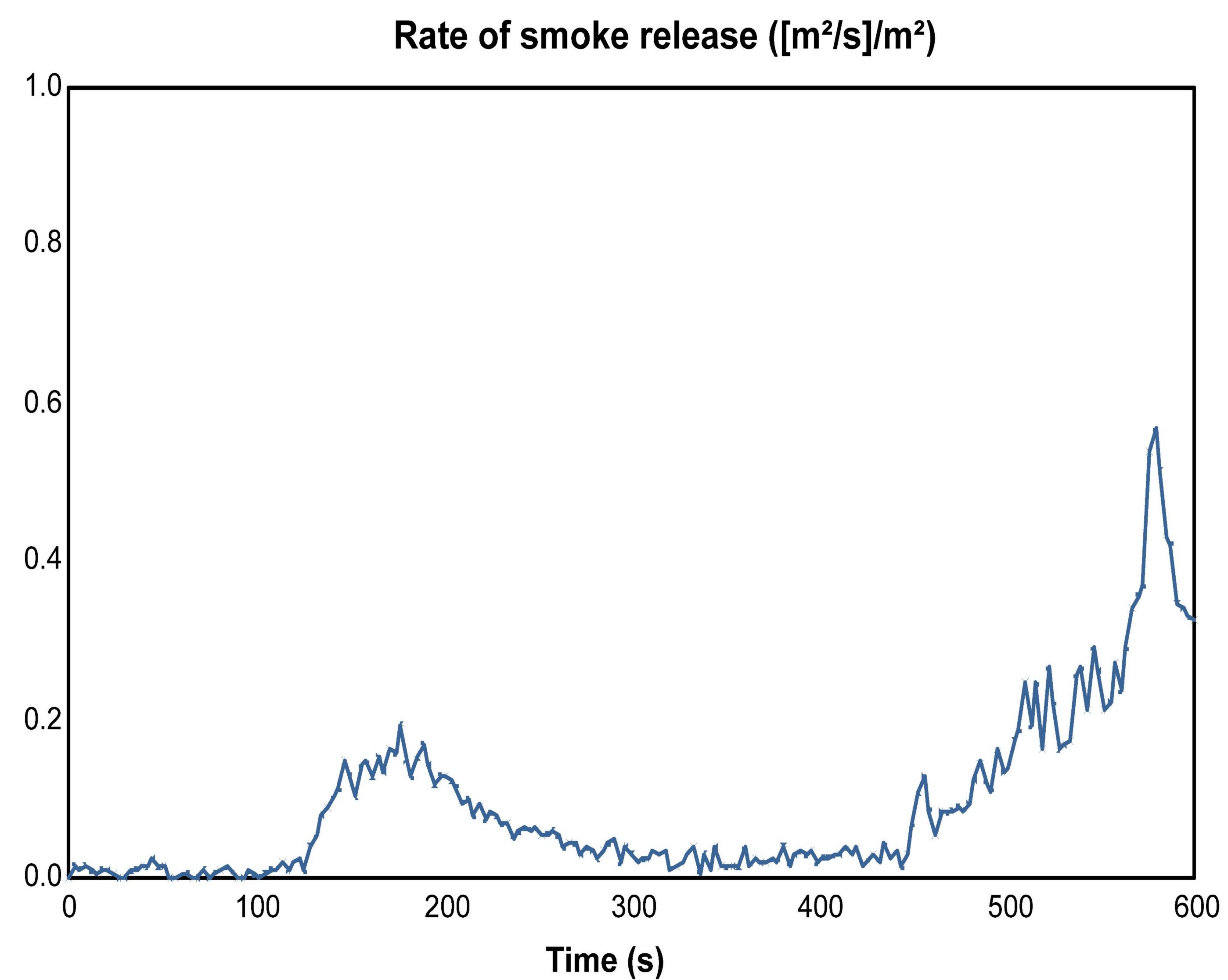
Issue Date : 05/11/2020

**Print Date : 5/11/2020** 

## 0.10 0.08 0.06 0.04 0.02 0.100 0.100 0.0000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0







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