

SBI Test Report

Laboratory name TUV Eesti OU
 Operator Fred Haas
 Filename C:\SBICALC\DATA\15040004.RW1
 Report identification 024- 15TM
 Product identification Ekospray PU foam+ Contego 500 mikron

Test		Pre-test conditions		Specimen conditioning	
Standard used	EN 13823:2002	Baseline duct temperature	287.42 K	Method	Constant mass
Date of test	08/04/2015	Ambient temperature	287.52 K	Time interval	72 hours
Date of report	08/04/2015	Ambient pressure	101.195 kPa	Mass 1	28890 g
E'	17.2 MJ/m ³	Relative humidity	35%	Mass 2	28890 g
Apparatus specifications		Baseline conditions		Temperature	23°C
kt	0.834	Baseline ambient oxygen	20.840%	RH	50%
kp	1.08	Baseline oxygen	20.958%		
Duct diameter	0.315 m	Baseline carbon dioxide	0.0520%		
O2 calibration delay time	12 s	Baseline smoke	100.04%		
CO2 calibration delay time	11 s				

Specimen information

Thickness		Mounting method	none
Density		Joints	none
Surface mass/area	kg/m ²	Fixed to substrate?	No
Specimen number		Fixing method	N/A
Date of arrival	02/04/2015	Substrate	none
		Manufacturer	Contego International Inc
		Sponsor	Contego International Inc

Test validity criteria

Test drifts

	Initial	Final	Change
Oxygen	20.958%	20.983%	0.025%
CO2	0.052%	0.055%	0.003%
Smoke	100.04%	99.81%	0.002

Exposure time 1254 s

Synchronisation details

Duct temp. dropped by 2.5 K from baseline of 312.66 K at 303 s
 Oxygen rose by 0.05% from baseline of 20.664% at 303 s
 CO2 dropped by 0.02% from baseline of 0.234% at 303 s

Burner details

Burner HRR	31.609 kW
Burner HRR std. dev.	1.112 kW
Burner CO2/O2 ratio	0.620
Burner SPR	0.023 m ² /s
Burner SPR std. dev.	0.007 m ² /s
Burner response time (s)	9 s

Other checks

Minimum duct flow	0.506 m ³ /s
Maximum duct flow	0.654 m ³ /s
No T/C failure	

Classification results

FIGRA(0.2)	293.6 W/s at 339 s
FIGRA(0.4)	188.0 W/s at 357 s
THR(600)	4.6 MJ
SMOGRA	43.2 cm ² /s ² at 354 s
TSP(600)	154.0 m ²

Classification observations

LFS to edge?	No
FDP flaming <= 10s?	No
FDP flaming > 10s?	No

Potential classification

Class	C
Smoke production	s2
Flaming droplets/particles	d0

Recorded events

Surface flashes? No; Falling specimen parts? No; Smoke not entering hood? No
 Mutual fixing of backing board failed? No; Distortion/collapse of specimen? No

Pre-test comments

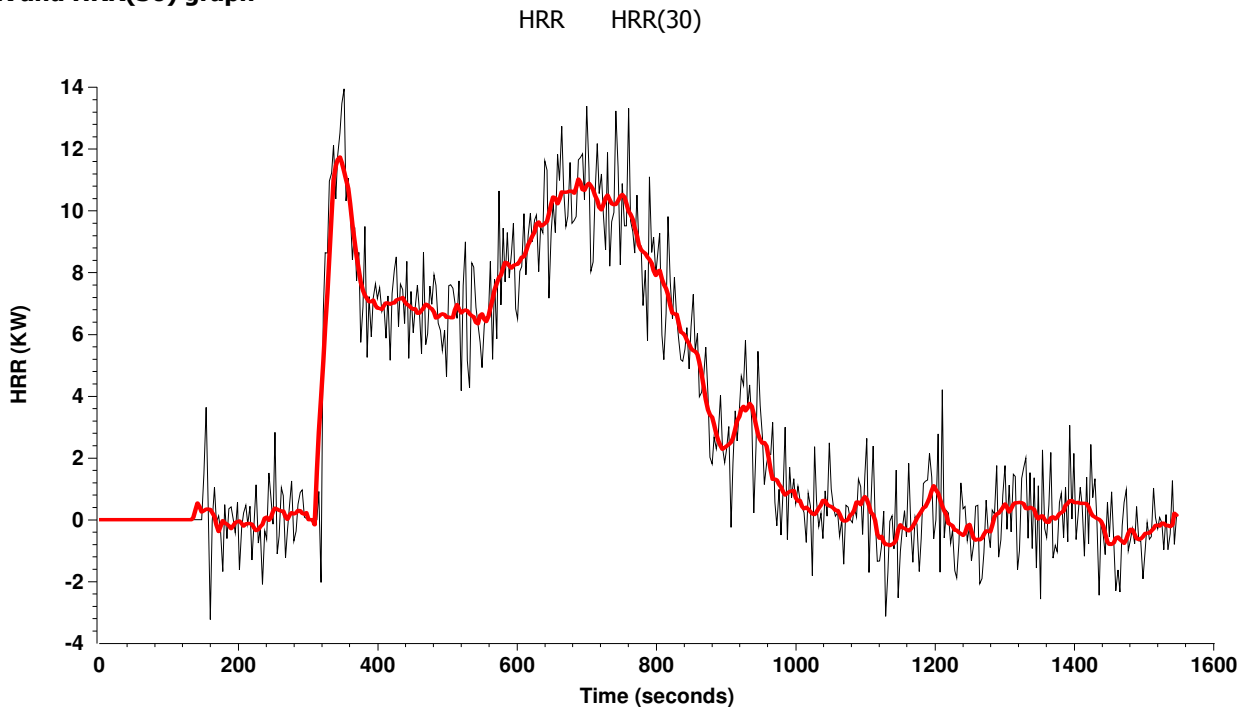
Ekospray 40 mm+ Contego 500mikron dft

After-test comments

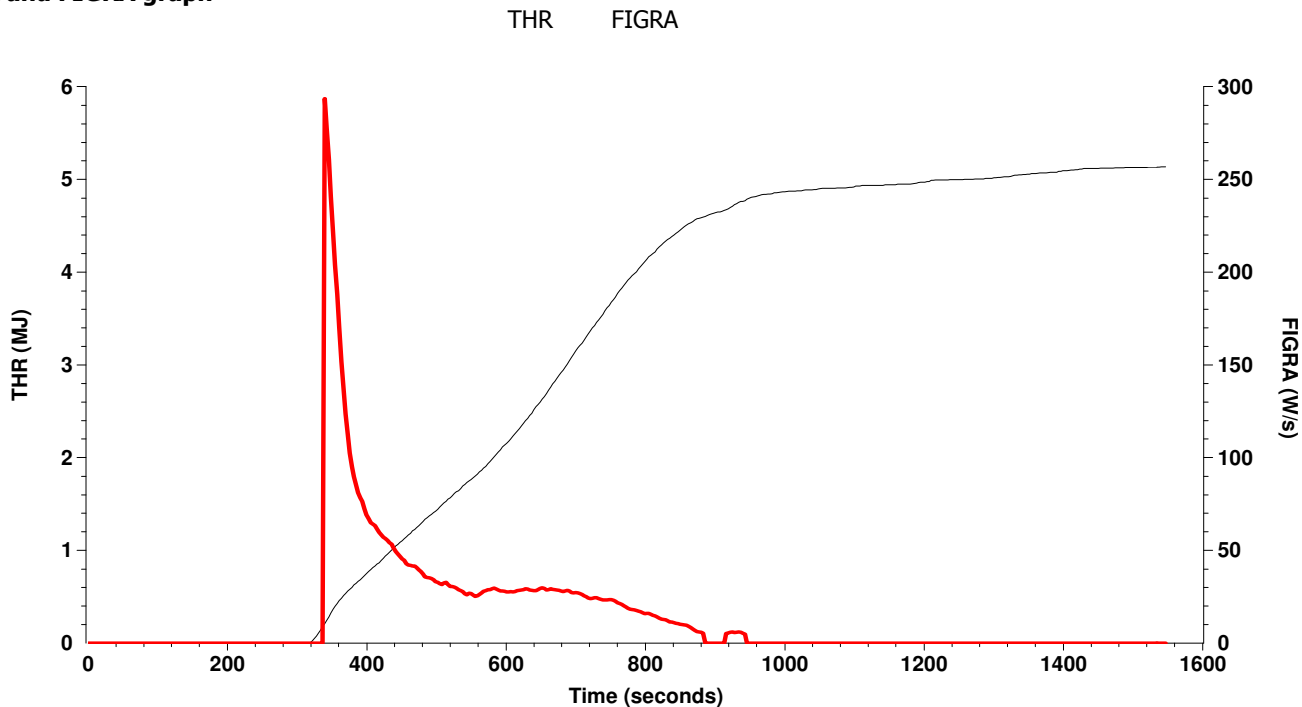
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HRR and HRR(30) graph



THR and FIGRA graph

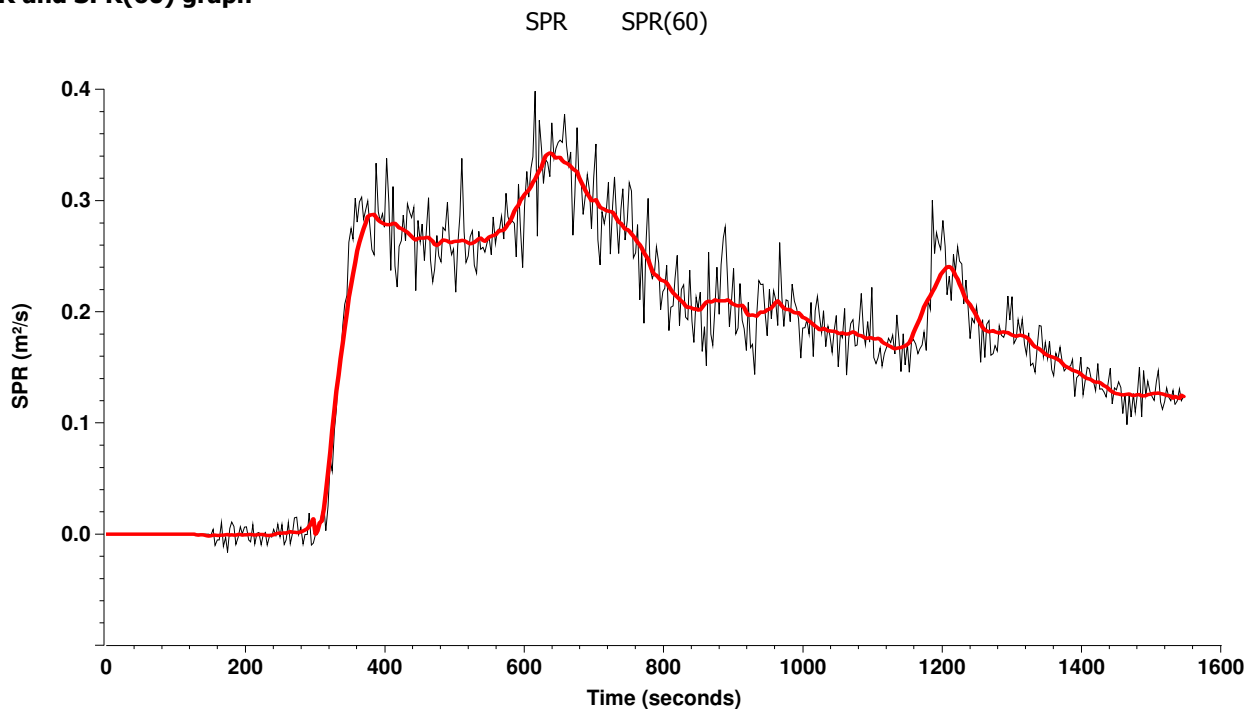


The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

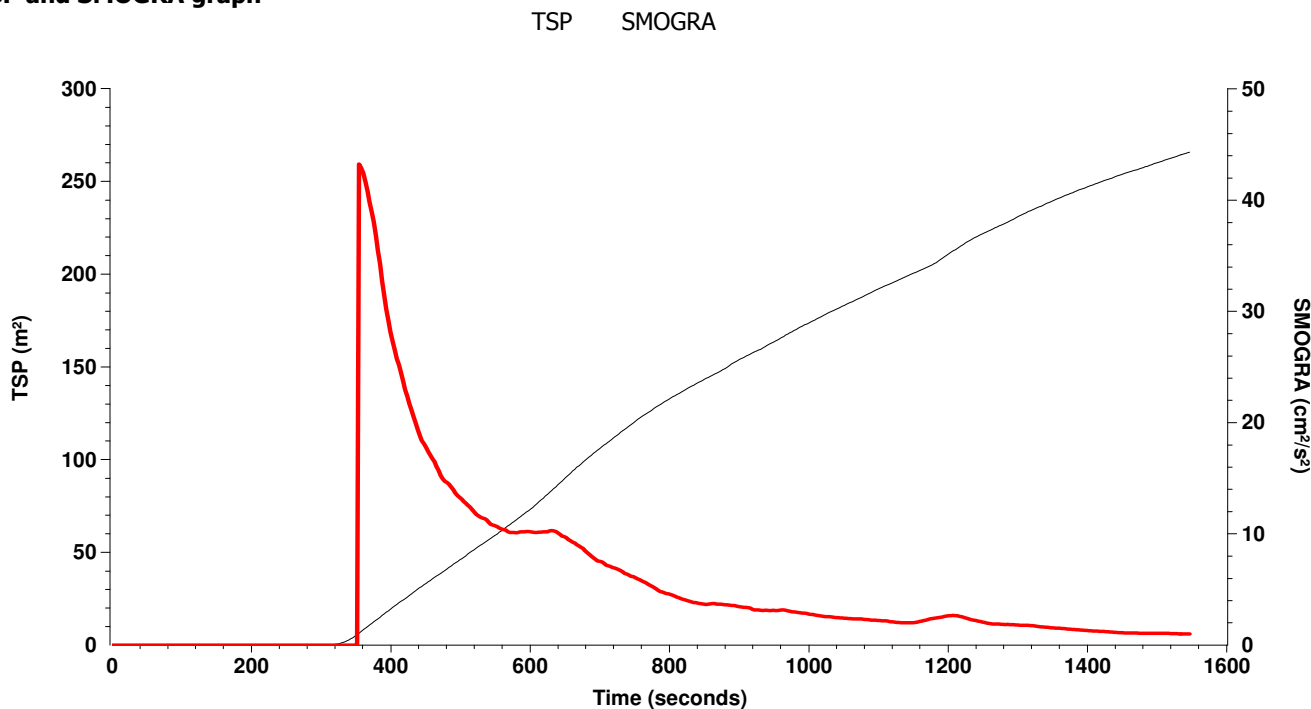
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SPR and SPR(60) graph



TSP and SMOGRA graph



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