

## Summary witnessing fire test set-up

### Present parties:

- **C-fire: manufacturer of firefighting equipment and systems**
  - Boris Boduljak R&D
  - Jaro Vanden Bossche certified technician
  - Geert Rooman C.O.O.
- **ACEG vzw: independent accredited body**
  - Jef Haest domain responsible for electricity and fire

### General information:

Date of examination	09/06/2022
Date of the report	09/06/2022
Inspector ACEG vzw	Jef Haest
Client	
- Name	C-fire
- Telephone number	+32 37 10 69 01
- Email	info@c-fire.eu
Location	
○ Street name	Frank van Dyckelaan
○ House number	17
○ Zip code	9140
○ Town	Temse

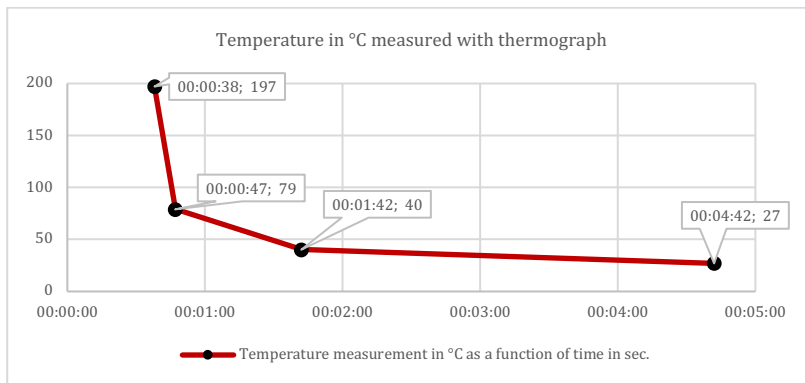
### Content

- **Summary of witnessing report 797142**

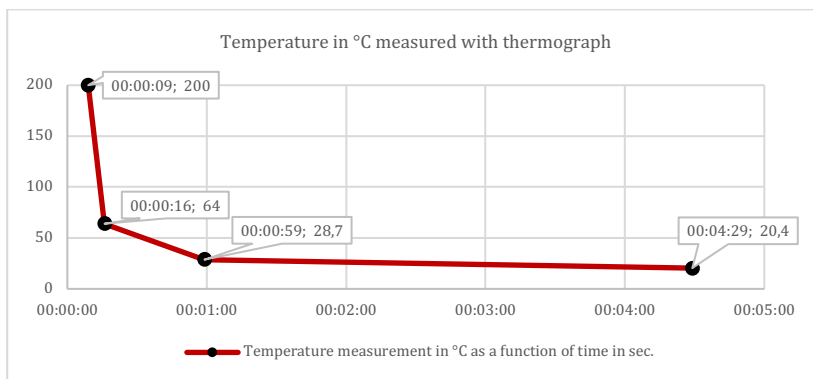
### Test subject

- **1 bottle control fire bio extinguishing spray 200ml:**

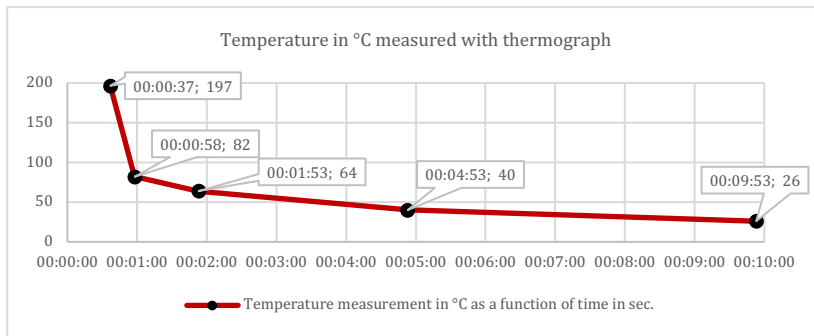
Test set-up	Fire class	Type	Material
1	A	Seating furniture	Cotton/PE/PU
Fire	<ul style="list-style-type: none"> <li>- between 0,5m and 1m high</li> <li>- 197,1°C after 38sec</li> <li>- a lot of smoke</li> </ul>		
Extinguish	<ul style="list-style-type: none"> <li>- extinguished after 9sec from 2m distance with 1 can Control Fire spray 200ml</li> <li>- heat reduction up to 79°C</li> <li>- smoke reduction</li> </ul>		
Post-extinguishing	<ul style="list-style-type: none"> <li>- 40,2°C after 23sec</li> <li>- smoke disappeared</li> </ul>		
Control measurement	<ul style="list-style-type: none"> <li>- after 3min</li> <li>- cooled to safe temperature</li> </ul>		
Conclusion	Effective extinguishing, smoke reduction, no explosion		



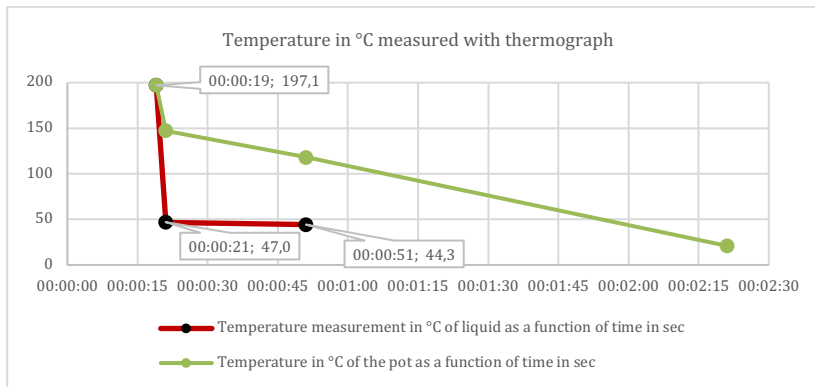
Test set-up	Fire class	Type	Material
2	A+B	Double layer clothing	Cotton/PE/Nylon
Fire	<ul style="list-style-type: none"> <li>- up to 0,5m high</li> <li>- +200°C after 9sec</li> <li>- little smoke</li> </ul>		
Extinguish	<ul style="list-style-type: none"> <li>- extinguished after 7sec from 2m distance with 1 can Control Fire spray 200ml</li> <li>- heat reduction up to 64°C</li> <li>- smoke disappeared</li> </ul>		
Post-extinguishing	<ul style="list-style-type: none"> <li>- after 24sec: above waste 24.3°C, middle 28.7°C, below waste 21.6°C</li> <li>- smoke disappeared</li> </ul>		
Control measurement	<ul style="list-style-type: none"> <li>- after 3min 30sec</li> <li>- cooled to safe temperature</li> </ul>		
Conclusion	Effective extinguishing, temperature reduction, smoke reduction		



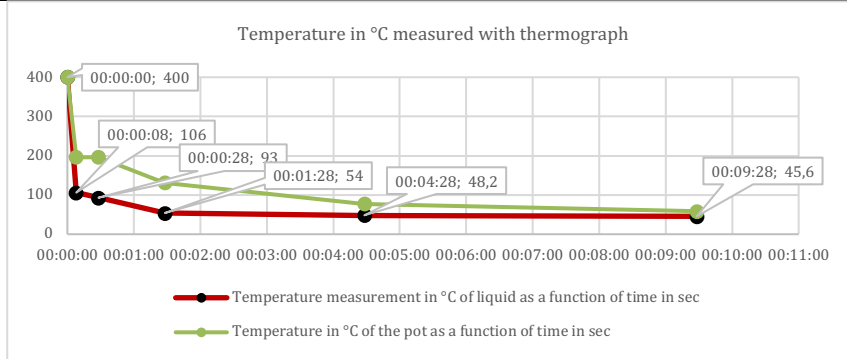
Test set-up	Fire class	Type	Material
3	A + B (+ E)	Electrical household appliance	PVC + teflon
Fire	<ul style="list-style-type: none"> <li>- up to 0.5m high</li> <li>- 196,5°C after 37sec</li> <li>- moderate smoke</li> </ul>		
Extinguish	<ul style="list-style-type: none"> <li>- extinguished after 21sec from 2m distance with 1 can Control Fire spray 200ml</li> <li>- heat reduction up to 82°C</li> <li>- little smoke</li> </ul>		
Post-extinguishing	<ul style="list-style-type: none"> <li>- after 55sec Post-extinguishing in pulses: 64°C</li> <li>- smoke disappeared</li> </ul>		
Control measurement	<ul style="list-style-type: none"> <li>- after 3min and after 5min</li> <li>- lasting cooling</li> </ul>		
Conclusion	Effective extinguishing, smoke reduction, no explosion		



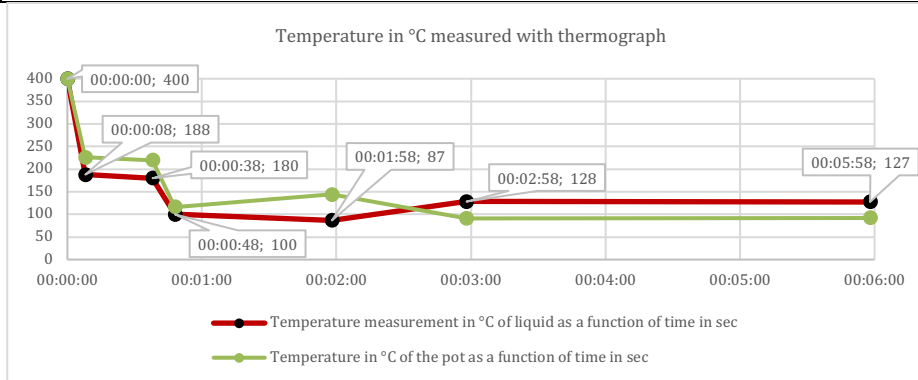
Test set-up	Fire class	Type	Material
4	B	Spray paint + degreaser/cleaner	Polarsolvents
Fire	<ul style="list-style-type: none"> <li>- up to 0.5m high</li> <li>- 197,1°C after 19sec</li> <li>- moderate smoke</li> </ul>		
Extinguish	<ul style="list-style-type: none"> <li>- extinguished after 2sec from 2m distance with 1 can Control Fire spray 200ml</li> <li>- heat reduction after 30sec to: 118.2°C for the pot and up to 44.3°C for the liquid</li> <li>- during extinguishing for 1sec a larger flame up to 1m high</li> <li>- little to no smoke</li> </ul>		
Post-extinguishing	<ul style="list-style-type: none"> <li>- after 29sec Post-extinguishing: 21°C</li> <li>- smoke disappeared</li> <li>- cooled to safe temperature</li> </ul>		
Conclusion	Effective extinguishing, smoke reduction, no explosion		



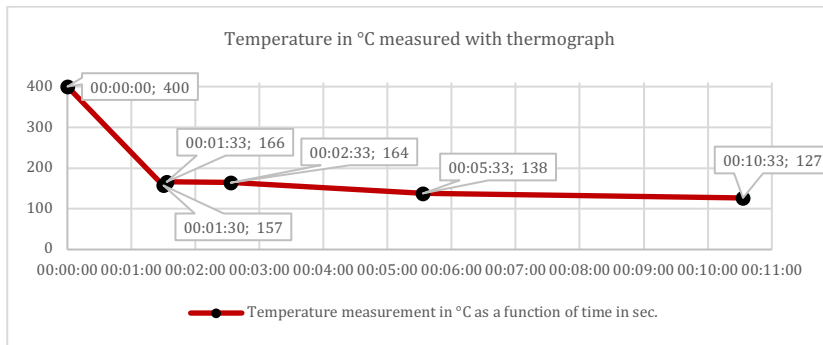
Test set-up	Fire class	Type	Volume
5	F	Sunflower oil	200ml
Fire	- up to 0.5m high - +400°C - lots of smoke		
Extinguish	- extinguished after 8sec from 2m distance with 1 can Control Fire spray 200ml - heat reduction to 196.7°C for pot and 106°C for oil - lots of smoke		
Post-extinguishing	- after 10sec Post-extinguishing to 196,7°C for pot and 93°C for oil - after 11sec Post-extinguishing up to 131°C for pot and 54°C for oil - moderate to low smoke		
Control measurement	- after 3min and after 5min - no smoke and lasting cooling		
Conclusion	Effective extinguishing, smoke reduction, no explosion		



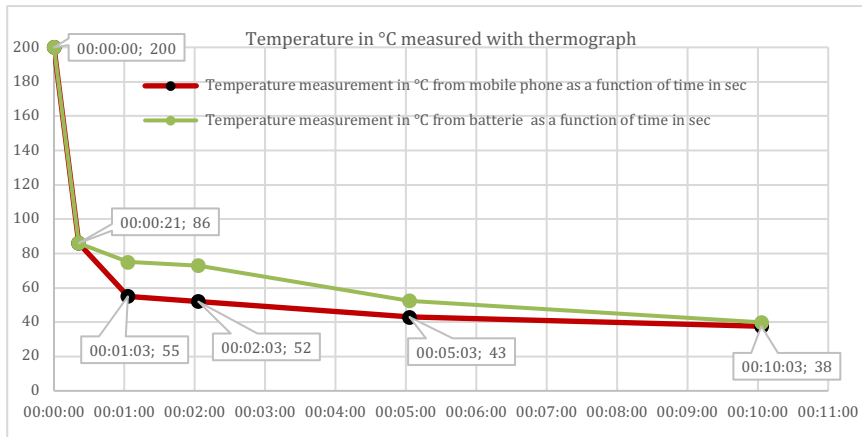
Test set-up	Fire class	Type	Volume
6	F	Sunflower oil	5L
Fire	- up to 0.5m high - +400°C - lots of smoke		
Extinguish	- extinguished after 8sec from 2m distance with 1 can Control Fire spray 200ml - heat reduction to 226°C for pot and 188°C for oil - during extinguishing a larger flame smaller than 2m high less than 2 sec - lots of smoke		
Post-extinguishing	- after 30sec Post-extinguishing up to 220°C for pot and 180°C for oil - lots of smoke - after 10sec Post-extinguishing up to 116.3°C for pot and 100°C for oil - moderate smoke - after 1min10sec Post-extinguishing to 144°C for pot and 86.6°C for oil - little smoke - after 1min Post-extinguishing up to 91°C for pot and 128.3°C for oil - little smoke		
Control measurement	- after 3min and after 5min - no smoke and lasting cooling		
Conclusion	Effective extinguishing, smoke reduction, no explosion		



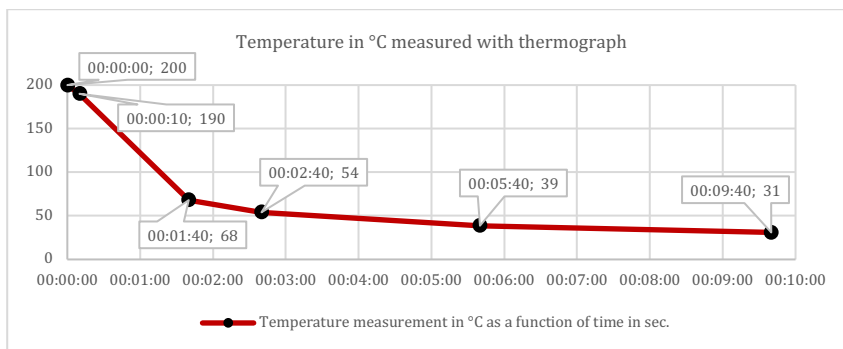
Test set-up	Fire class	Type	Material
7	A	Car tire	Rubber
Fire	- up to 0.5m high - +400°C - lots of smoke		
Extinguish	- extinguished after 1min30 from 2m distance with 1 can Control Fire spray 200ml - heat reduction up to 157.3°C - lots of smoke		
Post-extinguishing	- after 3sec Post-extinguishing in pulses up to 166°C - moderate to low smoke		
Control measurement	- after 1min, 3min and 5min - no smoke and lasting cooling		
Conclusion	Effective extinguishing, smoke reduction, no explosion		



Test set-up	Fire class	Type	Material
8	D	4x battery + 2x gsm	Li-ion
Fire	- up to 0.5m high - +200°C - moderate to low smoke		
Extinguish	- extinguished after swelling of the batteries from 2m distance with 1 bus Control Fire - heat reduction up to 86°C - little to no smoke		
Post-extinguishing	- after 42sec Post-extinguishing in pulses up to 55°C for battery and 75°C for GSM - little to no smoke		
Control measurement	- after 1min, 3min and 5min - no smoke and lasting cooling		
Conclusion	Effective extinguishing, smoke reduction, no explosion		



Test set-up	Fire class	Type
9	D	1 battery pack of 5 lithium cells (total 3200mAh)
Fire	- up to 0.5m high - +200°C - lots of smoke	
Extinguish	- extinguished after 10sec from 2m distance with 1 can Control Fire spray 200ml - heat reduction up to 190°C - moderate to low smoke	
Post-extinguishing	- after 1min30sec Post-extinguishing in pulses up to 68°C - little to no smoke	
Control measurement	- after 1min, 3min and 5min - no smoke and lasting cooling	
Conclusion	Effective extinguishing, smoke reduction, no explosion	



## Closing words

This summary of witnessing report 797141 was prepared by ACEG vzw, an independent party.

Witnessing performed by,  
 Domain responsible for electricity and fire,  
 Jef Haest commissioned by ACEG vzw

