



Test Report

No.: NBHL1601000632SD

Date: FEB. 06, 2016

Page: 1 of 10

KANSI TECHNOVATION PVT LIMITED

Q5/22, DLF PHASE-2, GURGAON, HARYANA, INDIA – 122001

The following sample(s) was/were submitted and identified by the client as:

Sample Description : AUTOMATIC & PORTABLE FIRE EXTINGUISHER
Item No. : FCO AND FIRE 1 ON 1
(EXTINGUISHING POWDER - MAP GRADE 90)
Witness Testing Period : JAN. 27, 2016
Test Requested : DETERMINATION OF THE PERFORMANCE
CHARACTERISTICS OF 'FCO AND FIRE 1 ON 1' WITH
REFERANCE TO ANNEX I OF EN 3-7:2004
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE
FOLLOWING PAGE(S)
Conclusion : THE TEST RESULTS WERE PROVIDED FOR CLIENTS OWN
ANALYSIS

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Sarah Li

Sarah Li
Approved Signatory



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Test Conducted:

1. Sample Selection

With reference to EN 3-7 Clause 5, samples shall be stored for at least 24 h at a temperature of $20 \pm 5 \text{ }^\circ\text{C}$ / $68 \pm 9 \text{ }^\circ\text{C}$ before the tests are carried out.

Sampling Site : #513, Udyog Vihar, phase-5, Gurgaon
 Sampling Date : 27th. Jan. 2016
 Sampling Amount : 6 pieces of each models are randomly picked
 Room Temperature : $23 \text{ }^\circ\text{C}$ / 73.4°F

Sampling Photograph
 (To be continued)



Storage of Fire Cease Out



Storage of Fire 1 on 1



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Sampling Photograph:



Picked Up Samples of Fire Cease Out



Picked Up Samples of Fire 1 on 1



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Sampling Scene



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2. Fire Rating

The flammable combustibles which ignited during performance test is designed to mix the flammable corresponding combustibles which defined in Class A, B and C as designated in US system, The correlations between US system and European/Australian System as listed as below.

Fire Rating	US System	European/Australian System	Substance used in the test
Ordinary combustibles	Class A	Class A	Typical substance in all these class: Wood, Paper, Plastic, Petrol and Electric Wire: Approximately Weight: 1.7 KG (3.75 lbs)
Flammable liquid	Class B	Class B	
Flammable gas	Class B	Class C	
Electrical	Class C	Class E ¹	

Note 1: This class is only designed in Australian system; In Europe, "electrical fires" are no longer recognized as a separate class of fire as electricity itself cannot burn.

3. Test conditions:

The performance test was carried out nearly 32 kilometers (20 miles) away from the centre of Delhi City, which has an open area at min. 10 metre * 10 metre (approximately 33 feet * 33 feet). The test conditions were recorded as below

Atmosphere Temperature : 23 °C (73.4 °F)
Humidity : 40 %
Wind Speed : Below 1 m/s
Test Location



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4. Test procedure:

- A. Randomly pick the test specimen from the picked specimens, and then randomly place combustibles (wood, paper, plastic, patrol and electric wire) as defined in Clause 2 into the test tray.
- B. Place the test sample in the centre of tray area.
- C. Ignite the combustibles to let the fire fully combusted by secured operator.
- D. Record the time the fire is fully extinguished from when the test specimen is triggered as the extinguishing time.
- E. Record area spread of powder.
- F. Record remains of the product after activation.
- G. Repeat Procedure A. to F for test specimens which sprayed by water.
- H. Total 4 tests were carried out, 2 for FCO for dry and wet condition respectively; 2 for Fire 1 on 1 for dry and wet condition respectively;.



Test Setup



Test Operator



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Water Spraying on the Test Specimens



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5. Test Result

Test No.	Extinguishing Time <i>Seconds</i>	Spread Area	Remains of the product after activation
1st FCO Dry Condition	3.85	2.65 m * 2.74 m (8.7 ft * 9 ft)	No splinter was observed out of the tray after fire extinguishing.
2nd Fire 1 on 1 Dry Condition	5.3	2.13 m * 2.13 m (7 ft * 7 ft)	No splinter was observed out of the tray after fire extinguishing.
3rd FCO Wet Condition	3.1	3.35 m * 3.35 m (11 ft * 11 ft)	No splinter was observed out of the tray after fire extinguishing.
4th Fire 1 on 1 Wet Condition	2.54	2.13 m * 2.13 m (7 ft * 7 ft)	No splinter was observed out of the tray after fire extinguishing.
Average Result of FCO	3.48	3 m * 3.05 m (9.10 ft * 10 ft)	No splinter was observed out of the test tray for all these 2 tests.
Average Result of Fire 1 on 1	3.92	2.13 * 2.13 (7 ft * 7 ft)	No splinter was observed out of the test tray for all these 2 tests.



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6. Test Photographs



Test Scene



Remains of 1st Test



Remains of 2nd Test



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Remains of 3rd Test



Remains of 4th Test

Remark:

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This inspection has been carried out to the best of our knowledge and ability and our responsibility is limited to the exercise of reasonable care.

End of Report



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