

Test Report No. 7191170404-MEC17/02-DA
dated 27 Sep 2017



PSB Singapore

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SUBJECT

Fire performance test of portable fire extinguishers submitted by Asiatic Fire System Pte Ltd

TESTED FOR

Asiatic Fire System Pte Ltd
65 Joo Koon Circle
Singapore 629078

PERIOD OF TEST

25-Sep-2017 to 27-Sep-2017

METHOD OF TEST

SS EN 3-7:2012 - "Characteristics, performance requirements and test methods"

IDENTIFICATION OF EXTINGUISHER

Type : "KILLFIRE" brand, model "KP-4EN"
Maufacturer : Asiatic Fire System Pte Ltd
Fire extinguisher medium : QFIRE 40, (dry powder)
Nominal charge of extinguisher : 4 kg
Method of pressure storing : Stored pressure type

The test was conducted at TÜV SÜD PSB's fire laboratory located at No. 10, Tuas Avenue 10, Singapore 639134.

David



LA-2007-0381-F LA-2007-0385-E
LA-2007-0382-B LA-2007-0386-C
LA-2007-0383-G LA-2010-0464-D
The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council. Inspections/Calibrations/Tests marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our inspection body/laboratory.

Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TUV®



CONCLUSION OF TEST

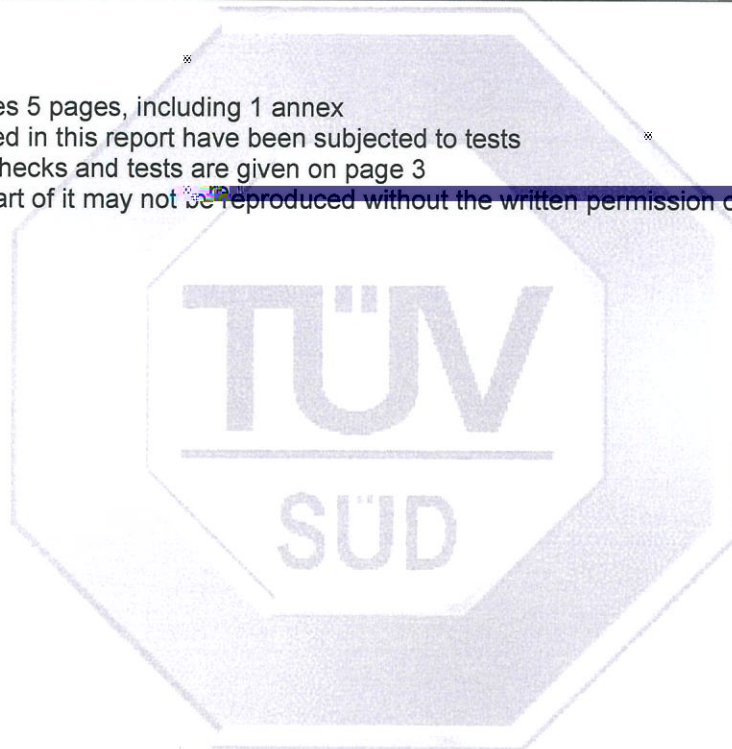
Conformity of submitted samples with clause 15 of EN 3-7 (yes/no)	Yes
Fire Class(es) intended for	A / B
Fire ratings achieved	27A / 113B


SUPPLEMENTARY INFORMATION


Quantity of samples provided	6 pieces
Date of submission	24-Sep-17

REPORT

This report comprises 5 pages, including 1 annex
Only material detailed in this report have been subjected to tests
The summary and checks and tests are given on page 3
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David Ang
Testing Officer


Tan Kim Heng
Assistant Vice President
(Fire Property)
Mechanical

SUMMARY OF CHECK AND TESTS

Item	EN 3-7 clause	Description	Applicable (Yes/No)	Conformity (Yes/No)
1	15.2	Class A fire rating	Yes	Yes
1	15.3	Class B fire rating	Yes	Yes

1. Class A fire rating (EN 3-7:2004+A1:2007, clause 15.2)

Test No	1	2	3
Fire size	27A		
Moisture content of wood: Measured average (%)	13	13	13
Permissible average (%)	10 to 15		
Measured ambient condition within test room (°C)	29	29	29
Permissible temperature within the test room before ignition (°C)	0 to 30		
Measured oxygen concentration throughout test (%)	19.8	19.8	19.8
Minimum required oxygen concentration throughout (%)	≥ 19		
Test fire extinguished (yes/no)	Yes	No	Yes
Measured time to extinguished test fire (min:s)	1:14	(2)	1:33
Maximum permissible extinguishing time ⁽¹⁾ -	(1)		
Achieved test fire rating – Class A -	27A		
Minimum required fire rating -	13A		
Conformity to clause 15.2 (yes/no): Yes			

⁽¹⁾ ≤ 5 min for fires ≤ 21A & ≤ 7 min for fires ≥ 27A

⁽²⁾ Test fire not extinguished

2. Class B fire rating (EN 3-7:2004+A1:2007 clause 15.3)

Test No	1	2	3
Fire size	113B		
Fire test carried out (In door / Outdoor)	Outdoor		
Measured ambient temperature (°C)	29	29	29
Permissible ambient temperature (°C)	0 to 30		
Measured wind speed (if outdoor) (m/s)	< 3	< 3	< 3
Maximum permissible wind speed (m/s)	≤ 3		
Test fire extinguished (yes/no)	No	Yes	Yes
Measure time to extinguished test fire (min:s)	(1)	0:9	0:13
Measured depth of heptane after extinction (mm)	(1)	> 5	> 5
Minimum required reminder of heptane after extinction (mm)	≥ 5		
Achieved test fire rating – Class B	-	113B	
Minimum required test fire rating – Class B	-	70B	
Conformity to clause 15.3 (yes/no): Yes			

⁽¹⁾ Test fire not extinguished



Annex 1: Photograph of portable fire extinguisher



David

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July 2011

