



TEST RECORD



FIRE BALL SA (PTY) LTD | REGISTRATION NO: 2017/237205/07
DIRECTORS: LE ROYE VAN DER MERWE & NIC MEYER

Call: 081 484 9374
Email: info@fireballrsa.co.za
Website: www.fireballrsa.co.za

Postal Address: P.O.Box 13184, Noordstad, Bloemfontein, Free State, 9302
Physical address: 6A Ambulance Road, Hilton, Bloemfontein, 9301

VAT: 465 027 8171



The Fireball SA Fire Extinguisher ball had a good day on the SABS testing grounds! It passed the following tests with flying colours:

1. The Fireball fully extinguished the following fires:

Fire extinguishment class A fires ✓ Passed

Fire extinguishment class B fires ✓ Passed

Fire extinguishment class C fires ✓ Passed

 **Passed**

2. Thermal resistance test

The Fireball was placed in an oven with air-circulation capability, at 85 °C for 24 h and 15 min. The ball did not activate, proving that the ball does not react to heat. The ball had no cracks, tears, or leakage on removal. ✓ Passed

3. Burst effect test

The Fireball was activated in a 56 x 56 x 56 cm container made from a strong frame and 5 mm thick normal glass on five sides, with an open top. After activation, no cracks or shattering were visible on the glass panels. ✓ Passed

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4. Sound level tested: 127 dB. ✓ Passed

5. Compression resistance test

A compression load with a speed of 5 mm/min was applied to the ball until it reached a load of 150 kg, applied for 10 min. The ball had no cracks, tears, or leakage on removal. ✓ Passed

6. Drop test

The Fireball was dropped onto a cement floor from a height of 2,5 m. The ball had no cracks, tears, or leakage on removal. ✓ Passed

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TEST REPORT

SABS

Your Ref: SAB 001
Our ref : 19/3/21/1
Enquiries: ASW van Rensburg
Tel No: 012- 428-6315
Project : FPE/84935/08
Date: 18 November 2008

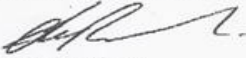
EZ TRADE 290 cc
Att: Mr C Page
5 Hyde Park
Platinum Crescent
Marconi Beam
Milnerton
7447

TECHNICAL INFORMATION ON FIRE BALLS

1. The fire exting ball contains a non toxic Furex Powder named Mono Amonium Phosphate (91.0 % MAP).
2. The ball has been tested at thermal temperatures of 85 degrees for 24 hours to prove the fire extinguishing ball cannot be activated by heat. The fire extinguishing ball can only be activated by open flames (85 degrees or more) and not by heat. This was conducted in point 5.3 of the test report.
3. In point 5.4 of the test report it is proved that the burts effect of the fire extinguisher ball cannot cause harm to humans, animals or property upon activation.
4. The sound level test on activation was measured to be 121 dB and thus is safe for use and cannot be harmful to human and /or animal eardrums as it is below the recommended 140 dB. This is substantiated in Point 5.5 of the test report.
5. The fire extinguishing ball has been subjected to compression test in Point 5.6 of this report and complies to 150 kg compression.
6. Drop test on Point 5.7 of this test report proves that the ball can be dropped from a height of 2.5 m with no damages caused.
7. Fire ball complies with class 1A, 5B and C fire rating. These are Thailand fire ratings and could be comparable with 3A, 21 B and C according to SANS 6172:2003(South African National Standards).

Yours faithfully


E Seeger
MANAGER: BUILDING & CONSTRUCTION


ASW van Rensburg:

SENIOR TEST OFFICER
FIRE PROTECTION ENGINEERING:SABS

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FIRE EXTINGUISHING BALL - SOUTH AFRICAN BUREAU OF STANDARDS

After lengthy and in-depth discussions with SABS regarding the Fire Extinguishing Ball please find the following findings and conclusions pertaining to this product within the borders of South Africa;

1. There are only basically three (3) fire extinguishing systems most commonly used in South Africa. These are pressurized vessels (conventional fire extinguishers using mono ammonium phosphate and CO₂), pressurized water systems (hose reels and sprinkler systems) and Fire Fox (water or chemical based mist spray systems) All three (3) of these systems are pressurised and requires regular servicing and maintenance. SABS has standards that the above must be measured or tested to.
2. Therefore, any system that is pressurised must be SABS approved due to safety regulations. All pressure vessels (metal casing of conventional fire extinguisher) or pressurised systems (sprinkler systems) are tested, that the equipment can withstand the specified pressures. Thus, a certificate from SABS must be obtained on the materials, manufacture and components used in these pressurised vessels or systems.
3. Any person or business that services and maintains these pressurised systems must be approved by SABS as they are dealing with pressurised equipment (e.g. re-filling of conventional fire extinguisher or maintenance of sprinkler systems)
4. Therefore, as can be seen SABS only requires a stamp of approval or certificate for pressurised fire extinguishing equipment and or the servicing thereof. Fire equipment retailers are required by SABS to have a manufacturing and service permit only, therefore they would not need a certificate to sell/repair.
5. The Fire Extinguishing ball being the latest technology in fire extinguishing equipment is NOT a PRESSURISED vessel or system and does NOT require specialised SERVICING. SABS standards for fire extinguishing equipment only pertain to pressurised vessels and thus there is no classification for this product, either here or globally.
6. SABS standards division put this forward to the construction technical committee (TC 5120 06 – project leader Mr KB Matsitse) and after 5 months of discussion the following resolution was agreed upon;
 - a) According to international fire extinguishing standards ANSI/UL 711 and AS/NZS are both addressing the classification, rating and performance of a fire extinguisher.
 - b) These issues are adequately covered by SANS 1322:2004 Non-refillable portable fire extinguishers and SANS 6172:2003 which covers assessment of fire ratings.

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7. Then in discussion with - CERTIFICATION DEPARTMENT SABS COMMERCIAL (PTY) LTD it was agreed that the fire extinguishing ball does not have to be certified by the SABS as it is not a pressure vessel or does not require specialised servicing and maintenance. As there is no standard for a fire extinguishing ball to be tested to as there is only one manufacturer, and this is done under patent. Ez Trade submitted the fire extinguishing ball to the SABS so that it could be tested to manufactures specifications in accordance with certification SANS 6172:2003 as well as the other relevant tests that do not pertain to a fire extinguisher, that these may also be verified. These tests are to be carried out by SABS Fire Protection Engineering – Project leader Mr ASW van Rensburg.

CONCLUSION:

SABS has confirmed that the ball does not need its approval for sale in South Africa, but it will submit a test report supporting the manufacturer’s specifications and thus alleviating any potential fears one may have of the product. It may only be sold as a secondary device and not as a primary device and may not replace any regulated fire extinguishing apparatus, but as an add-on requirement. So, it is an over and above regulatory requirements for fire risk area

Yours Faithfully



Le Roye van der Merwe
Director

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CERTIFICATION



CERTIFICATE OF CONFORMITY
Certificate No.: PCK20130805001

The Certification Body of
PANCERTITEK(U.K) TESTING AND CERTIFICATION LTD

Certifies that

Applicant: ABOEL INDUSTRIAL CO.,LIMITED

Address: 6/F, Tianhui Building, Donghuan 1st Road, Longhua New Area, Shenzhen, Guangdong, China

Product: Automatic Fire Extinguisher Ball

Type: FB-01

Complies with the requirements of the European Community **Directive 2001/95/EC General Product Safety**. The submitted products have been tested by us and found in compliance with the following European Standards:

CEN/TR 15276-1:2009

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. It does not imply an assessment of the whole production. This certificate should be used in conjunction with the technical documentation file related to the product.

Signature: Thomas Bill
Thomas Bill
Date of issue: Aug 23, 2013



PANCERTITEK(U.K) TESTING AND CERTIFICATION LTD
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bsi.

..making excellence a habit™

16 September 2019

Fireball South Africa
P.O. Box 13184
Noordstad
Bloemfontein
9302

Attention: Mr. Le Roy van der Merwe

FIREBALL CERTIFICATION

Dear Le Roy,

With reference to your enquiry regarding certification of your product the following:

BSI can only issue product certification for a product against an international or national standard. The certification process will involve factory assessments and testing of the product for compliance to the requirements of the standard.

Unfortunately we would not be able to assist you with your enquiry for Kitemark Certification as there are no known national or international standards for this product. The fireball is not a traditional portable fire extinguisher not a fire suppression system and cannot be certified against these standards. I am aware that the SABS standards committee were looking at writing a standard for the fireball at the beginning of the year, but I believe the technical committee decided not to proceed with it at that stage due to the lack of any other international standards for this product.

We can repeat the testing you had previously done at the SABS in 2008 at our laboratory in the United Kingdom, but as these testing will be once off customer specific and not for certification, these test reports will only be valid for samples tested at the time of testing and you would still not be able to apply any approval mark on your product.

As the fireball is not pressurised it is not regulated under the Pressure Equipment Regulation. As long as the fireball is installed in buildings as a secondary fire protection device and not as the replacement of traditional firefighting equipment prescribed by the Deemed-to-Satisfy requirements of the National Building Regulations (SANS 10400-T) there are no legal requirements for this product to be certified against any standard.

Kind regards



Ronel Liebenberg
Product Certification Executive
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M: +27 (0) 60 980 2319

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