

# 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 harmfull 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 Afican National Standards).

Yours faithfully

  
E Seeger  
MANAGER: BUILDING & CONSTRUCTION

  
ASW van Rensburg:

SENIOR TEST OFFICER  
FIRE PROTECTION ENGINEERING:SABS

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This test was performed by SABS Commercial (Pty) Ltd. This report and the test results relate only to the specific sample(s) identified herein. They do not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of this page.)

# TEST REPORT

# SABS

Your ref: SAB 001  
Our ref: 15/25/9/1  
Enquiries: ASW v Rensburg  
Tel: (012) 428-6315  
No.: FPE/84935/08  
Page: 1 of 3  
Date: 2008-11-10

EZ TRADE 290 CC  
Attention: Mr. C Page  
5 Hyde Park  
Platinum Crescent  
Marconi Beam  
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## DRY POWDER TYPE FIRE EXTINGUISHING BALLS

### 0 Significance of test results contained in this report.

- 0.1 Refer to the print on the back of this page.
- 0.2 The sample described was tested for all the requirements of the clients own testing manual for Fire Extinguishing Balls.
- 0.3 The sample tested complies with the requirements of the testing manual for Fire Extinguishing Balls.

### 1 DESCRIPTION OF SAMPLE

Twenty four 1,2 kg dry powder type fire extinguishing balls marked "Elide Fire" were submitted by the sponsor to the Fire Protection Engineering Laboratory of the SABS on 25 April 2008.

The specimens were accompanied by drawings and specifications of which copies are attached to this report.

### 2. The extinguishing balls were labelled as follows:

Capacity: 1,2 kg  
Class: A B C  
Trade mark: Elide Fire

### 3. NATURE AND METHOD OF TEST

The extinguishing balls were evaluated for compliance to the "Testing manual for Fire Extinguishing". At the request of the sponsor all the tests specified in the Testing manual were conducted and reported under section 5 of this report.

**4 OBSERVATIONS AND FINDINGS**

Note:- The sections that follow reflect observations and findings. The numbering of these sections is consistent with the numbering of the relevant paragraphs in the testing manual. This numbering system is utilized with the objective to ease cross reference.

**5 GENERAL REQUIREMENTS**

**5.1 General Appearance**

The extinguishing balls shall not show any cracks, tears or leakage of the extinguishing agent, when inspected visually.

**5.2 Extinguishing agent contained inside the fire extinguishing balls**

The agent must be dry chemical powder, which is not in a hardened or agglomerative form. The test for the agent depends on the age of the ball. The ball with the age of one year or more must be tested according to clause 5.2.1 and with the age less than one year must be tested according to clause 5.2.2.

5.2.1 By removing the soft shell of the fire extinguishing ball, the chemical powder can be examined. It must not agglomerated.

5.2.2 To determine moisture aging of the chemical powder, a desiccator or similar equipment may be used. This may be conducted by filling the device with water to cover the bottom and then hanging the ball above the water, and keeping the device at room temperature for 14 days. Remove the ball out of the device, and test in accordance with sub clause 5.2.1.

**5.3 Thermal resistance test**

When the fire extinguishing balls are tested according to clause 8, for thermal resistance they should not show any cracks, tears or leakage of the extinguisher agent. - Complied

**5.4 Bursting effect**

When the fire extinguisher balls are rested for resistance to bursting according to clause 9, the glass panels used in the test should not crack or break. - Complied

**5.5 Sound level test**

When the sound pressure level of the explosion, as measured in accordance with clause 10, it should not be more than 140dB. - Complied - 121 dB

**5.6 Test for resistance to compression**

When the fire extinguishing balls are tested for the resistance to the compression, according to clause 11, they should not show any cracks, tears or leakage. - Complied

**5.7 Drop test**

When the fire extinguishing balls are dropped to the ground according to clause 12, they shall show no cracks, tears or leakage of the extinguishing agent. - Complied

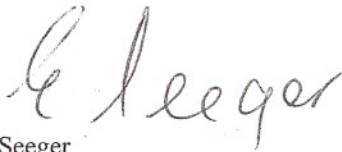
**5.8 Performance of the extinguisher**

In addition the fire extinguishing balls shall meet the criteria of acceptance as described in table 1. (See clause 13)

NO	Performance rating	Criteria	Test method	Results
1	Class 1 A extinguishers	Must extinguish fire	13.1	Complied
2	Class 5 B extinguishers	Must extinguish fire	13.2	Complied
3	Class C extinguishers	Must extinguish fire	13.3	Complied

**6 Results**

The sample of dry powder extinguishing balls as described under section one of this report complies to requirements of the properties listed under section 5 of this report.



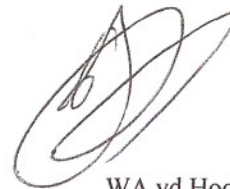
E Seeger

**MANAGER: BUILDING AND CONSTRUCTION**



ASW v Rensburg

**TEST OFFICER: FIRE PROTECTION ENGINEERING**



WA vd Hoogt

**TEST OFFICER**