

Report Number:	11003477 002		Project ID: 00001301	Page 1 of 8
Manufacturer	Name: YG Yangın Güvenliği San. ve Dış. Tic. Ltd. Şti. Address: 4.Levent Sanayi Bölgesi Yeşilce Mah. Ulubaş Cad. Dostluk Sok. No: 12-1 Daire No: 6-7 Kağıthane/İstanbul/Turkey			
Generic Type:	Gas generator		Category: P1	
Subtype:	Pyrotechnic fire-fighting device			
Wind speed during performance test (m/s):	0,2	Temperature during performance test (°C):	23	
Number of samples:	10	Number of items in family: 1		
Condition:	As received (AR)	After thermal (TC)	After mechanical (MC)	Dismantling
Quantity:	3	3	3	1
Date of testing completion:		Testing location:		
02.06.2021		8184 Balatonfűzfő, Fűzfői Ipari Park 1498/184. hrsz. és 034/64 hrsz		
Testing Laboratory: CerTrust Ltd Testing laboratory				
Relevant regulations: 2013/29/EU Directive, EN 16263-1:2015, EN 16263-2:2015, EN 16263-3:2015, EN 16263-4:2015 (party accredited), EN 16263-5:2015				
ID of Test Results: 11003477 002 <i>Result of the tests (provided by the Testing Laboratory)</i>				
Approved by Istvan Kapitany Date: 22.06.2021 E-mail: istvan.kapitany@certrust.eu				
Signature				
Attachments:	ANNEX A Test results ANNEX B Picture of samples ANNEX C Technical drawings ATTACHEMENT A Dissection data sheet (may be separate documents) ATTACHEMENT B Draft labels provided by the manufacturer (may be separate documents) ATTACHEMENT C Technical data sheets provided by the manufacturer (may be separate documents)			
Without permission of the test centre this test report is not permitted to be duplicated in extracts. This test report does not entitle to put any safety mark on these or similar products.				

List of tested items

Test Report Number: 11003477 002	Category: P1
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Code:	Name:	pcs. of samples	Code:	Name:	pcs. of samples
	SUPER FIRE BALL	10			

ANNEX A

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Test Results

ID of Test Report:	11003477 002	Category:	P1
Number of sample:	10	Number of items in family:	1

EN 16263-
5:2015

Requirement No.	Requirement	Way of inspection	Test result
4	Minimum labelling requirements		
4.1	General requirements	Visual	✓
4.2	Information on manufacturer or importer	Visual	✓
4.3.1	Type of article	Visual	✓
4.3.2	Name of article	Visual	✓
4.3.3	Category and registration number	Visual	✓
4.3.4	Identification number of the Notified Body	Visual	✓
4.4	Age limits	Visual	✓
4.5	Instructions for use	Visual	✓
4.6	Safe firing distance/s and hazard zone	Visual	✓
4.7	Net Explosive Content	Visual	✓
4.8	Means of ignition	Visual	✓
4.9	Safe/arm device	Visual	✓
4.10	Direction of effect	Visual	✓
4.11	'Use by' date	Visual	✓
4.12	Printing	Visual	✓
4.13	Marking of very small items	Visual	N/A

II. CONSTRUCTION REQUIREMENTS

EN 16263-
2:2015

Chapter	Requirement	Way of inspection (Acc. to EN 16263- 4:2015)	Observation	Result
4	General and safety requirements			
4.1	Incompatible substances	Examination of manufacturer's documentation		✓
4.2	Safe disposal	Check of manufacturer information		✓
4.3	Any means of ignition shall be protected to avoid accidental initiation of the article	Visual		✓
	Ignition devices used for the submitted pyrotechnic articles, shall comply with the relevant requirements of EN 16265 standard	Examination / check of certificate, test report		✓
4.4	Each pyrotechnic article shall be equipped with safety features which are appropriate to its mode of initiation	5.6 / 5.7 / 5.13.1.1		✓
4.5	Toxicity	Examination of instructions for use		✓

Table 1 – Design verification data sheet

Item ID / sample no.	Gross mass (g)	NEC (g)	Specific powder weights (g)	Outer dimensions (mm)	Inner dimensions (mm)	Specific dimensions (mm)
SUPER FIRE BALL /1	1296	1,249	–	Ø 142,68	–	–

III. PERFORMANCE TESTS

EN 16263-
2:2015

Chapter	Requirement	Way of inspection (Acc. to EN 16263- 4:2015)	Observation	Result	
5.1	Each pyrotechnic article shall function completely and attain the performance characteristics specified by the manufacturer	5.9		AR	✓
				MC	✓
				TC	✓
	The articles shall function safely and completely after mechanical or impact test and thermal conditioning	5.3	See table 2	AR	N/A
				MC	✓
				TC	✓
	When a use by date is specified by the manufacturer and is greater than two years after the manufacturing of the article, its correct functioning at the 'use by' date shall be demonstrated by the manufacturer	5.10 / (5.9.2.4)		AR	✓
				MC	✓
				TC	✓
5.2	Verification of design to the manufacturer's declarations	Visual / 5.2 and 5.3	See table 1	AR	✓
				MC	✓
				TC	✓
5.3	Verification of labelling and end user's documentation	Visual		AR	✓
				MC	✓
				TC	✓
5.4	Articles shall not ignite as a result of mechanical impact test nor release pyrotechnic composition from the article nor exhibit visible damages such as deformations, ruptures or cracks	5.8		AR	✓
				MC	✓
				TC	✓
5.5	When tested in accordance with EN 16263-4:2015, 5.7 and 5.8, P1 articles shall not exhibit any loss of pyrotechnic composition from the article	Visual	See table 2	AR	N/A
				MC	✓
				TC	N/A
	When tested in accordance with EN 16263-4:2015, 5.7 and 5.8, For P2 articles, the total mass of loose pyrotechnic composition shall not exceed 2 % of the NEC or 0,5 g, whichever is the smaller.			AR	N/A
				MC	N/A
				TC	N/A
5.6	The article shall function correctly and completely after resistance to moisture test.	5.9.2.1 or 5.9.2.2 and 5.10		AR	N/A
				MC	N/A
				TC	N/A
	The article shall function correctly and completely after water immersion test.	5.16 and 5.10		AR	N/A
				MC	N/A
				TC	N/A
5.7	The article shall function correctly after resistance to high and low temperatures test.	5.9.2.2 and/or 5.9.2.3 and 5.10		AR	N/A
				MC	N/A
				TC	N/A
5.8	Only intended fragmentation or intended opening of the article as specified by the manufacturer shall take place	5.10		AR	✓
				MC	✓
				TC	✓

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2:2015

Chapter	Requirement	Way of inspection (Acc. to EN 16263- 4:2015)	Observation	Result	
6.1	For semi-finished pyrotechnic articles, only verification of design according to 5.2 shall apply			AR	N/A
				MC	N/A
				TC	N/A
6.2	Thrust of rocket motors shall comply with the manufacturer's specification.	5.11		AR	N/A
				MC	N/A
				TC	N/A
7	Where a primary pack is used, it shall be of a size to enable labelling	Visual		N/A	
	Integrity of primary pack shall be verified after mechanical and thermal conditioning.	Visual		N/A	

Table 2 - Measured performance data sheet

Item ID / sample no.	Completely function			Loose pyrotechnic composition (MC)	Thrust / Velocity			Other performance data		
	AR	MC	TC		AR	MC	TC	AR	MC	TC
SUPER FIRE BALL /2	OK	–	–	–	–	–	–	–	–	–
SUPER FIRE BALL /3	OK	–	–	–	–	–	–	–	–	–
SUPER FIRE BALL /4	OK	–	–	–	–	–	–	–	–	–
SUPER FIRE BALL /5	–	OK	–	0g	–	–	–	–	–	–
SUPER FIRE BALL /6	–	OK	–	0g	–	–	–	–	–	–
SUPER FIRE BALL /7	–	OK	–	0g	–	–	–	–	–	–
SUPER FIRE BALL /8	–	–	OK	–	–	–	–	–	–	–
SUPER FIRE BALL /9	–	–	OK	–	–	–	–	–	–	–
SUPER FIRE BALL/10	–	–	OK	–	–	–	–	–	–	–

Table 3 - Nonconformity description (if any nonconformity occurred)

Item ID / sample no.	Description of nonconformity	Requirement
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ANNEX B

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Picture of samples



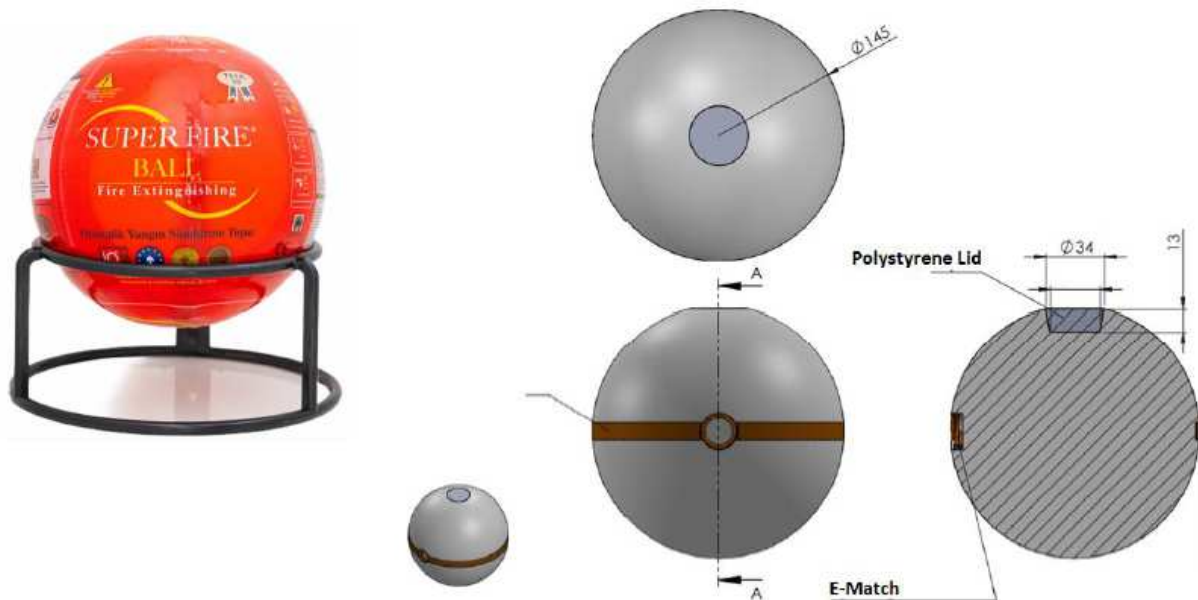
SUPER FIRE BALL

ANNEX C

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Technical drawings



SUPER FIRE BALL