

ELIDE FIRE®

Model:  **LIFE SAVERS**
AUTOMATIC FIRE FIGHTING BALL



TIS. 3413-2565

AUTOMATIC FIRE FIGHTING BALL

According to Industrial Product Standard

TIS 3413-2565

AUTOMATIC FIRE FIGHTING BALL

ICS 13.220.20 Environment, Health Protection,

Safety Fire Protection – Automatic



Made in Thailand

Made in Thailand (MIT)

The Federation of Thai Industries

Parcel and procurement methods

It is a parcel that the state must promote or support.



USER MANUAL
LIFE SAVERS



ISO-ICS CODE 13.220.20

(FIRE PROTECTION AUTOMATIC)

Creation Date: 30-06-2023 and Publication Date: 03-07-2023

USER MANAUAL



www.elidefire.com

CONTENTS

	PAGE
1. Product Information Symbols	1
2. Warning Symbols	2
3. Expired Product Disposal Symbols	3
4. Warning	4
5. Product details	4
6. Technical Product information	5
7. Product Operation	5
8. Fire Rating According to TIS. 3413-2565	6
9. Nature of Fire	6
10. Product Performance According to TIS. 3413-2565	6
11. How to use Model: LIFE SAVERS	7-8
12. How to installation	8
13. Cautions and Prohibition	9
14. Service life and how to dispose of expired products	10
15. Product Standards and Certification	11
16. Frequently Asked Questions (FAQ)	12
17. Disclaimer	13
18. How to verify genuine products	14

Protect yourself against counterfeit products. Scan here to verify the authenticity of the product
 www.elidefire.com/verify-qr-code  product@elidefire.com

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ELIDE FIRE®

1 ONE STANDARD TEST
ACCEPTED EVERYWHERE



TIS. 3413-2565
AGENCY REGISTRATION NO.



Made in Thailand

CE 1395



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AUTOMATIC FIRE FIGHTING BALL



6 WORLD GOLD GENIUS INVENTIONS



Meaning of product information symbols



Weight 0.40 ± 0.01 kg

ELIDE FIRE ABC
Dry Chemical Powder

Chemical powder weight 0.40 ± 0.01 kg.



0.42 ± 0.01 kg

Total weight

Total weight 0.42 ± 0.01 kg.



$\varnothing \leq 10.5$ cm (4 Inch)

Spherical Diameter

Diameter $\varnothing 10.5 \pm 0.2$ cm.



Covering an area of
 0.7 M³(Cubit Meter)

Coverage area 0.7 m³ (Cubic Meters).



Storage & Installation
 $< 70\%$ (RH) $\pm 10\%$ (RH)

**Store and install in a room with a humidity
 $\leq 70\% \pm 10\%$ RH.**



-40°C to 85°C .
Installation Temperature

**Install in a room with a temperature of
 $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$.**



3-30 sec.
Activation time

**Upon exposure to flame, the device will autonomously
activate within a timeframe of 3 to 30 seconds.**



Impulsive Noise
 ≤ 120 dB
Act. as Fire Alarm

**Impulsive noise levels ≤ 120 dBA, concurrently
serving as an alarm mechanism.**

Meaning of Warning Symbols



Do not use with forest fires.



Do not use in conjunction with drones.



Do not dispose with regular waste.



Do not cut, dissect, or tear the product.



The fire-fighting ball is not to be utilized for entertainment purposes or employed as a toy.



CAUTION



Expired Product Disposal Symbol



Carefully dismantle the ball, extracting both the fuse and the associated chemical components.



Dig near the plant, add the chemical agent, pour 5 liters of water, and cover with soil.



Environmentally friendly.



Biodegradable material, waste code 15 01 02



Encapsulated container PE FOAM (Polyethylene) can be recycled and reused.

Non-Hazardous Waste Code 15 01 02

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Warning!

Consider installing at fire risk area in a vehicle engine room or boat engine room. Consult a person who specializes in fire safety, such as a safety expert, fire engineer, or a distributor of ELIDEFIRE.

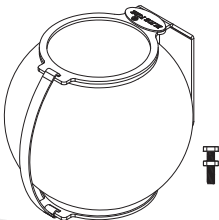
Product information



Automatic fire fighting ball for engine compartments and engine room of cars, boats, and various types of engines that have large horsepower, such as marine vessels, large ships, large cars, etc.

Product details

- One Piece of Automatic Fire Fighting Ball.
- One Set of Installation Metal Holder and Screws.
- One Piece of User Manual Handbook.



4

 LIFE SAVERS
AUTOMATIC FIRE FIGHTING BALL

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Technical product information

Model: LIFE SAVERS

- 01 Blue
- 02 ELIDE FIRE ABC dry chemical powder
- 03 Chemical powder weight: $0.40 \pm 0.01\text{kg}$
- 04 Total weight: $0.42 \pm 0.01\text{kg}$
- 05 Shape: Spherical, size 4 inches (In)
- 06 Diameter: $10.5 \pm 0.2\text{ cm}$
- 07 Service life: 2 years



Product Operation

Model: LIFE SAVERS

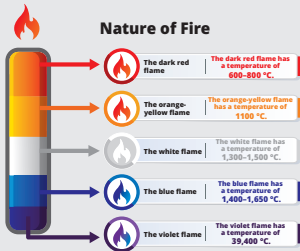
- Upon exposure to flame, the device will autonomously activate within a timeframe of 3 to 30 seconds.
- Automatically activates upon reaching a temperature of 280°C .
- Impulsive noise levels $\leq 120\text{ dBA}$, concurrently serving as an alarm mechanism.
- Provides 360° radial coverage of extinguishing agent.
- Total Coverage Area of 0.7 m^3 (Cubic meters) without obstacles.



TIS. 3413-2565
AUTOMATIC FIRE FIGHTING BALL

Fire Ratings According to TIS. 3413-2565

- **Class A** Fires are caused by the burning of ordinary flammable fuels such as wood, fabric, paper, and plastic. They are indoor building fires.
- **Class B** Fires are caused by flammable liquid fuels, gases, greases, and oils.
- **Class C** Fires are caused by electrical equipment.
- **Class F** Fires that exhibit rapid expansion and achieve peak temperatures (Flash Fire)
- **Class G** Fires caused by Class B and C fires occur in the engine room.



Nature of Fire

The Range of the fire's severity

Within 1 minute, a fire spread throughout the room.

Within 2 minutes, the smoke engulfed the upper floors.

Within 3 minutes, the floor of the room was thickly covered with smoke.

Within 4 minutes, the fire spread throughout the area, covering both the upper and lower floors.

Within 5 minutes, toxic fumes and high heat caused people to experience fatalities.

Product Performance According to TIS. 3413-2565



- **Size 1-A capability** - Capable of automatic extinguishing and monitoring fires within the building.
- **Size 2-B capability** - For Installation of Passive automatic fire suppression only.
- **Size 1-C capability** - Installation for extinguishing fire from live electrical equipments.
- **Size 1-F capability** - Capable of extinguishing active indoor fire within 1 minute from ignition.
- **Size 1-G capability** - Installation for automatic extinguishing fire in the engine room.

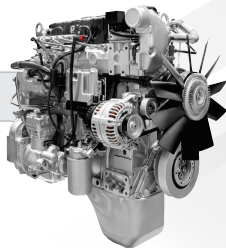


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How to use Model: LIFE SAVERS

- 01** Utilize for the installation of automatic fire suppression according to risk points.



FIRE CLASS PROTECTION

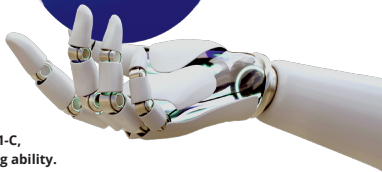


*Fire surveillance for automatic
Extinguishing of fire in the engine room.*



Installed to monitor automatic fire extinguishing
in the engine room.

- Lab vibration tested of 10 Hz.
- Passed fire performance testing for classes 1-A, 2-B, 1-C, and 1-F. Then tested to pass the 1-G fire extinguishing ability.



Remark:



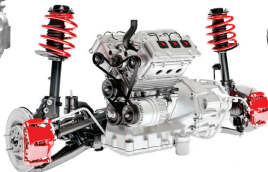
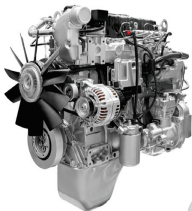
To identify fire risk areas, please consult with a fire safety expert.

Such as a safety professional, fire engineer, or automatic fire fighting ball distributor.

Installation methods for automatic fire suppression in the engine room.

How to install a 24/7 automatic fire suppression system for a service life of 2 years with no maintenance costs by installing it at fire-risk points.

- ✓ For optimal performance, always install with the yellow arrow pointing up.
- ✓ Installed at a distance of 10-15 cm above the ECU (Electronic Control Unit) in the engine compartment of a car or boat.



Cautions and Prohibitions for Model: Life Savers

01 Please thoroughly read the user manual handbook and adhere strictly to the usage instructions.



02 Consider selecting an appropriate model tailored for specific uses.



Prohibition

- **Unsuitable for active Class B fires;** designated solely for installation and initial suppression of fires emanating from Class B sources. Do not deploy into Class B fires.
- **Do not install outside the engine room.** Used to install inside the engine room only.
- **Do not install near the exhaust pipe** in the engine room. will damage the product and affect its operation.
- **Do not use with forest fires.**
- **Do not use in conjunction with drones.** This Fire Fighting Ball Model is not suitable for use with drones to extinguish fires.
- **Do not expose the fire-fighting ball to rain or water.**
- **Do not drop the fire-fighting ball from a height more than 2.5 meters.** This can cause the fire-fighting ball to break and affect the performance operation.
- **Adherence to the testing procedures outlined in the TIS 3413-2565 standard manual is imperative.**
- **Cannot be used to extinguish fires originating from wood with red coals.**

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Product Service Life

The product possesses service life of 2 years.



PE FOAM (Polyethylene)
15 01 02



HDPE



Disposal of expired products

Carefully dismantle the ball, extracting both the fuse and the associated chemical components.

Dig near the plant, add the chemical agent, pour 5 liters of water, and cover with soil.

10

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Product standards and certifications: product origin International Classification for Standards

- ✓ CE Certification PA 1395-0128/2010-TH/D1
- ✓ THE FEDERAL OF THAI INDUSTRIES MADE IN THAILAND
- ✓ The Thai Industrial Standards Institute (TISI) is the national standards organization for Thailand under the Ministry of Industry. TISI is a member of the International Organization for Standardization (ISO). Thailand follows ISO guidelines to synchronize standards with its trade partners. Thai Standards are developed according to the government policy in consumer protection and industrial. National Safety Thai Standards No. TIS.3413-2565 Standard Name AUTOMATIC FIRE FIGHTING BALL. International Classification for Standards ICS 13.220.20 Environment. Health protection. Safety Fire protection – Automatic
- ✓ ISO 9001 :2015 Certification by TUV SUD ASIA PACIFIC Certificate Registration NO: TUV100 12 352/2
- ✓ National Center for Fire Safety and Civil Protection, Ministry of Internal Affairs Romania. Certificate No. 660/24/2018



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11

FAQ

1. What kind of chemicals are used? Is it dangerous or not?

Answer ELIDE FIRE ABC Dry Chemical Powder (MAP) is harmless to people and the environment, according to the materials safety data sheet for ABC Dry Chemical.

2. Is the firefighting ball dangerous?

Answer It's not dangerous. The dry chemical powder inside the extinguishing ball is harmless to people and the environment. When the fire extinguishing ball works, there will be a noise level of ≤ 120 decibels, which is not harmful to human hearing. It is not harsh, and the material is light, so it is not harmful to the user.

3. What to do with the firefighting ball after it expires?

Answer Carefully dismantle the ball, extracting both the fuse and the associated chemical components.

Dig near the plant, add the chemical agent, pour 5 liters of water, and cover with soil.

4. How do I install a firefighting ball? Is there any equipment to install or not?

Answer Every firefighting ball model comes with mounting hardware. and a complete set of screws, easy to install with no training required, should be installed and followed by the instructions of the user manual.

5. What happens if a firefighting ball falls from a height?

Answer The firefighting ball has passed the drop test from a height of 2.5 meters, but if the user drops it from a height of more than 2.5 meters, it may break, the firefighting ball may deform, and chemicals may leak. If so, it should not be used to extinguish.

6. What is the mechanism or method for extinguishing the fire?

Answer When touching the flame, the AUTOMATIC FIRE FIGHTING BALL will work automatically within 3-30 seconds and distribute the extinguishing agent to the Inhibited Chain Reaction until the fire finally extinguishes.

7. How do I clean after the firefighting ball has worked?

Answer Dry chemical cleaning can be done by sweeping, vacuuming, dusting, or using a damp cloth to wipe clean.

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1395



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How to verify genuine products from manufacturers



1. Scratch the gray bar on the QR CODE to find the product code number.
2. Open the application that can scan the QR CODE with a smartphone or check through the website <https://www.elidefire.com/verify-qr-code>
3. Scan the QR CODE to verify that it is a genuine product from the manufacturer.
 - 3.1 If genuine the system will show results confirming that it is a genuine product.
 - 3.2 If it is not a genuine product The system will alert you to beware of counterfeit products.
4. Verification code can only be scanned once. If you can't verify, please contact the manufacturer.
E-mail: product@elidefire.com

Manufacturer:

ELIDE FIRE BALL PRO CO., LTD.

Address: No. 14/7-13 Moo 1 Kaomaikaew, Sub-District, Banglamung District, Chonburi 20150 Thailand

Email: contact@elidefire.com Website: www.elidefire.com

14



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