

ELIDE FIRE®

Model:  **LOVINGCARE**
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
LOVING CARE

USER MANAUL



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

www.elidefire.com

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ELIDE FIRE[®]

Model:  **LOVINGCARE**
AUTOMATIC FIRE FIGHTING BALL

1 ONE STANDARD TEST
ACCEPTED EVERYWHERE



TIS. 3413-2565
AGENCY FOR TECHNICAL STANDARDS



Made in Thailand



1395



6 WORLD GOLD GENIUS INVENTIONS



Meaning of product information symbols



Weight 0.40 ± 0.01kg
ELIDE FIRE ABC
Dry Chemical Powder

Chemical powder weight 0.40 ± 0.01kg.



0.42 ± 0.01kg
Total weight

Total weight 0.42 ± 0.01kg.



Ø ≤ 10.5cm (4 inch)
Spherical Diameter

Diameter Ø 10.5 ± 0.2 cm.



Covering an area of
0.7 M³(Cubic Meter)

Coverage area 0.7 m³ (Cubic Meters).



Storage & Installation
< 70%(RH) ± 10%(RH)

**Store and install in a room with a humidity
≤ 70% ±10% RH.**



-40°C to 85°C.
Installation Temperature

**Install in a room with a temperature of
-40 °C ~ +85 °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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AUTOMATIC FIRE FIGHTING BALL

CLASS A FIRE CAPABILITY SYMBOL



Utilize automatic extinguisher for Class A fires.



Monitor and extinguish solid fuel fires.



For Indoor Uses



Provide 24/7 monitoring and automatic fire suppression.



Can be thrown into an indoor fire for fire suppression within 1 minute.



Curtain



Clothes



Plastic



Wood

1-A

Combustible materials



Automatic extinguishing fires from ordinary combustible materials.



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AUTOMATIC FIRE FIGHTING BALL

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Model:  **LOVINGCARE**
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CLASS B FIRE CAPABILITY SYMBOL



Utilize automatic extinguisher for Class B fires.



Monitor and extinguish flammable liquids and gases fires.



For Indoor Uses.



Provide 24/7 monitoring and automatic fire suppression.



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.



Fuel



Gas



Oil



Paint

2-B

Flammable liquids



Class B fuels are permitted for
INSTALLATION ONLY.



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Model:  **LOVINGCARE**
AUTOMATIC FIRE FIGHTING BALL

CLASS C FIRE CAPABILITY SYMBOL



Utilize automatic extinguisher for Class C fires.



Monitor and extinguish fires originating from electrical equipments.



For Indoor Uses.



Provide 24/7 monitoring and automatic fire suppression.



MDB cabinet



Power plugs



Junction box



Heater



Electrical appliance

1-C



Automatic Extinguish fires that involve energized electrical equipment.

Electrical Fires



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Model:  **LOVINGCARE**
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CLASS F FIRE CAPABILITY SYMBOL



Utilize automatic extinguisher for Class F fires. Fires that exhibit rapid expansion and achieve peak temperatures (Flash Fire)



Can be thrown into an indoor fire for fire suppression within 1 minute.



**DO NOT USE WITH!
LIQUID FUEL!**

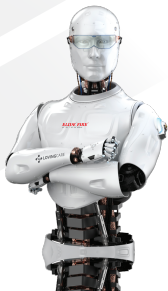
Do not throw into flammable liquid fuels, CLASS B.



Extinguishing fires where the high temperature in a confined space rises and spreads rapidly.



**DO NOT USE WITH!
LIQUID FUEL!**



ELIDE FIRE®

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AUTOMATIC FIRE FIGHTING BALL



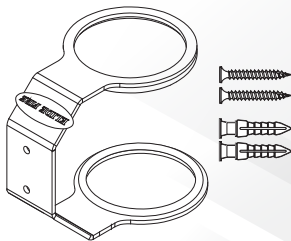
Product details

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



Product Information

AUTOMATIC FIRE FIGHTING BALL for internal and external uses, Model **LOVING CARE** is suitable for use in the following locations: Residential houses, townhouses, condominiums, apartments, flats, commercial buildings, shophouses, etc.



Warning

Automatic firefighting balls under the trademark ELIDE FIRE® extinguishing ball are Model TECHIDEAS, size 6 inches, and Model Loving Care, size 4 inches. Consider installing a fire risk point and consulting fire professionals such as safety professionals, fire engineers, or distributors of automatic fire fighting balls. Determine fire risk points caused by short circuits first by considering the use of electric power, insulators, electrical appliances in the building, and boxes. Separate electrical cables on the ceiling electrical box, inside the MDB (Main Distribution Board), and secondly, consider Model TECHIDEAS, installed at a point where there are security personnel to throw out the initial fire before it spreads to a large fire.

Technical product information

Model: LOVING CARE

- 01 Red
- 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: 5 years



Product Operation

Model: LOVING CARE

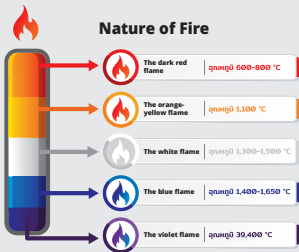
- Upon exposure to flame, the device will autonomously activate within a timeframe of 3 to 30 seconds.
- Automatically activates upon reaching a temperature of 280°C .
- Impulsive noise levels $\leq 120\text{ dBA}$, concurrently serving as an alarm mechanism.
- Provides 360° radial coverage of extinguishing 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)



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.

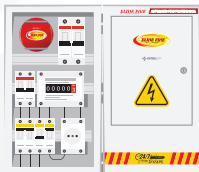
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Model:  **LOVINGCARE**
AUTOMATIC FIRE FIGHTING BALL

How to use Model: LOVING CARE

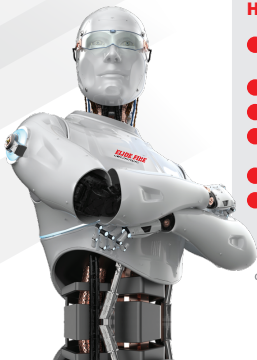
Ø1 Utilize for the installation of automatic fire suppression according to risk points.

Ø2 Can be tossed, roll, or thrown into a fire during its not fully-developed stage to suppress or decelerate its progression.



How to install and suitable distance for installation

- Always install according to the yellow arrow pointing up for efficient operation.
- Install it in a small MDB cabinet.
- Install 10-15 cm above electrical equipment.
- Install 10-15 cm above the power cut-out, above the power plug.
- Install 10-15 cm above the electrical connection box.
- Install 60 cm above flammable liquids and flammable substances with a volume of 1-12 liters in a confined space.



Remark:

01 Consider risk points and proceed with the product installation.

Model TECHIDEAS, size 6 inches, and Model LOVING CARE, size 4 inches, in the case of a small MDB cabinet or a junction box on the roof, are able to bring Model LOVING CARE, size 4 inches, to install for economy and suitability of fire size and risky areas.

02 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.



How to install Automatic Fire Fighting Ball for indoor use.

Installed in a location that is easily accessible at a height of not more than 150 cm.



The Automatic Fire Fighting Ball should be installed to suppress not fully developed stage of fire.

- Living room.
- Kitchen.
- Office.
- Guardhouse.
- Romantic candle lighting area.
- Religious ceremony room.

Storage and maintenance.

- Indoor use.
- Install in a room with a temperature range of -40 °C to +85 °C.
- Store and install in a room with a relative limit of 70% ± 10% RH.
- Do not get wet or exposed to rain.



Cautions and Prohibitions for Model: LOVING CARE

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 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 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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Model:  **LOVINGCARE**
AUTOMATIC FIRE FIGHTING BALL



Product Service Life

The product possesses service life of 5 years.



PE FOAM (Polyethylene)
15 01 02



HDPE



Destruction 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.

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AUTOMATIC FIRE FIGHTING BALL

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AUTOMATIC FIRE FIGHTING BALL



Made in Thailand

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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 **LOVINGCARE**
AUTOMATIC FIRE FIGHTING BALL

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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 extinguishing 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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Model:  **LOVINCARE**
AUTOMATIC FIRE EXTINGUISHING BALL

1ONE STANDARD TEST
ACCEPTED EVERYWHERE



TIS 3413-2565



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Disclaimer

Accuracy or coverage of the above information, use, and information It is for safety reasons, and no authorization or implied performance of any patented invention without a license may require more information to assess other uses of the Product, including the use of the Product in conjunction with any materials or in any way. Procedures other than those specifically referred to in the information contained herein relate to hazards. Any potential association with the product does not imply a suggestion that the use of the product in a given application will result in any exposure or risk. For employees or the general public, the seller cannot be held liable for damages or any injury caused by abnormal use or non-compliance with instructions, guidance, practice, or any hazards inherent in the nature of the product. Buyers and users assume all risks from the use, storage, and handling of this product in accordance with all applicable federal, state, and local laws and regulations. Buyers and users of the product should obtain special instructions from their employees, agents, contractors, and all customers on how to use this product. The manufacturer disclaims responsibility for users following the manual. This edition is strict. Therefore, users should ensure that they are installed in the correct way as specified in this manual. and choose to use automatic fire extinguishing balls according to the type of fire and the capacity specified in the product standard. National Safety Thai Standards for Trade No. TIS.3413-2565 For products with trademark impersonation Plagiarism and counterfeit goods the manufacturer is not responsible in any case. And the manufacturer reserves the right to sue in any case.

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AUTOMATIC FIRE FIGHTING BALL



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CE 1395



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

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