



FIRE DESTROYER

ZERO FIRE

YOUR PRIVATE FIRE DEPARTMENT



ABOUT US

Fire Destroyer is a team of ambitious employees dedicated to fire protection. Our focus is on solutions in the field of active fire protection. We have developed a modern line of automatic fire extinguishers designed for use by fire departments, industry, the transportation sector, and civilians. We have secured the development of our products internationally under the FIRE DESTROYER brand.

VISION AND MISSION

Our goal is to provide active fire protection for both people and property with the FIRE DESTROYER brand products. Our vision and mission: to become the leading company in Europe in the field of active fire protection with the FIRE DESTROYER brand. It is our aim to continuously improve our products and make them accessible to as many users as possible.

1. PRODUCT OVERVIEW



Aerosol Gas Disc Countless applications!

FIRE DESTROYER AEROSOL DISC is designed for larger electrical cabinets, transformer stations, servers, yachts with engine rooms



Aerosol Gas Sticker Small and accessible everywhere!

The FIRE DESTROYER sticker is designed for installation in extremely tight spaces within a building due to its shape and size.



ABC Powder Ball Ready for the unexpected!

The FIRE DESTROYER ball is suitable for use in various areas, including industrial facilities, agricultural operations, and households.



ABC Powder Disc Travel worry-free!

The FIRE DESTROYER disc is designed for installation in the engine compartments of vehicles and ships.



Class A
Wood



Class B
Liquid
substances



Class C
Gases



Class F
Cooking oil

By using FIRE DESTROYER products, you can save
your business, your property, or even your life.

2. WHAT IS FIRE DESTROYER ?

The automatic fire extinguishers, FIRE DESTROYER, represent a new form of active fire protection designed to extinguish various types of fires. These automatic fire extinguishers are primarily intended for fire protection in situations where no one is present or where extinguishing a fire with conventional extinguishers is not possible. Unlike regular fire extinguishers, which must be activated manually, Fire Destroyer starts automatically when it comes into contact with fire, releasing powder or gas to extinguish it. To ensure optimal use, the placement of the fire extinguisher is a crucial factor.

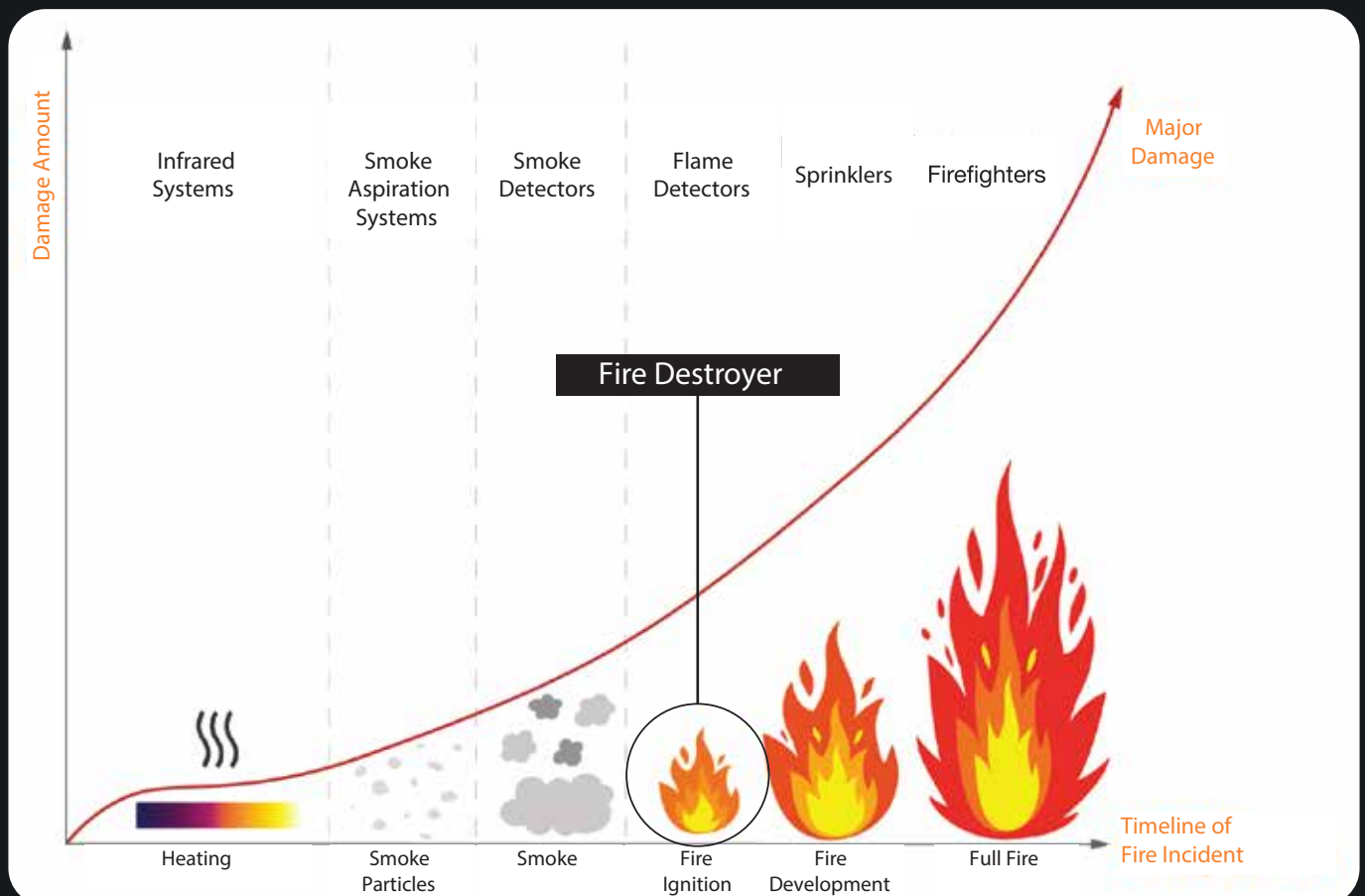
The product serves as an active fire protection system. When the FIRE DESTROYER detects a flame, it activates itself to extinguish the fire before significant property damage occurs or lives are endangered. The extinguishing agent is harmless to both the environment and humans.

With this system, you do not need to be present when a fire breaks out. You only need to ensure that the FIRE DESTROYER products are placed strategically and thoughtfully to achieve the best extinguishing results.

The automatic fire extinguishers FIRE DESTROYER offer a cost-effective active fire protection system that requires no additional investment for installation upgrades or other interventions in the premises.

3. HOW DOES FIRE DESTROYER WORK ?

When the flame comes into contact with the device, the surrounding fuses are ignited within seconds, automatically triggering the device's reaction. The extinguishing agent, in the form of a dry substance, is dispersed throughout the room, extinguishing the fire. The fire extinguishers cover an area ranging from 0.12 to 12 cubic meters, depending on the size of the fire extinguisher used.



4. OUR FIRE PROTECTION CONCEPT !

COMPANY SECTOR A

COMPANY SECTOR B



POTENTIAL FIRE SOURCE

Our products offer a key advantage: they do not need to be installed extensively throughout buildings or vehicles. Instead, they consist of micro-units that are specifically placed at potential fire sources. This targeted installation has several positive effects: lower costs, as less material and labor are required, faster response times, since the micro-units act directly at vulnerable spots, and ultimately, a reduction in damage volume, as fires can be extinguished more effectively due to the rapid response.

5. ADVANTAGES

1. **Lightweight and portable:** ranging from 90 g to 6.0 kg.
2. **Easy handling:**
 - The BALL can be hung, placed, or thrown directly into the fire.
 - The STICKER is applied in tight, hard-to-reach areas.
 - The DISC, designed for vehicles and watercraft, is simply placed near the engine or another suitable area.
3. **Response time:** the activation time of the FIRE DESTROYER when in contact with flames is 3-5 seconds.
4. **Alarm function (only for products with ABC powder):** produces an acoustic signal of up to 120 decibels.
5. **Safe and efficient:** thanks to the automatic function, a fire is automatically fought without the need for people to be present.
6. **Service life:** 3-5 years (depending on the product), no maintenance required.
7. **Active fire protection:** always on standby, 24/7.
8. **Environmentally friendly and safe for humans:** FIRE DESTROYER is completely harmless to both the environment and humans.
9. **Investment:** FIRE DESTROYER's active fire protection requires no additional investments in building installations or other interventions in the premises.

The fire extinguishers are maintenance-free and have a service life of 3 to 5 years, depending on the product.

FIRE CLASSES

In the event of a fire, extinguishing occurs automatically with a quick response time for fires in classes A/B/C/F.

Class A – Wood

Class B – Gases

Class C – Flammable liquids

Class F – Cooking oil

STANDARDS and CERTIFICATIONS

1. Compliant with standards GA 602-2013, 2013/29/EU, DIN EN 16263-5:2021-7
2. Type examination and CE certified
3. Patented protection
4. Internationally protected brand

Warning!

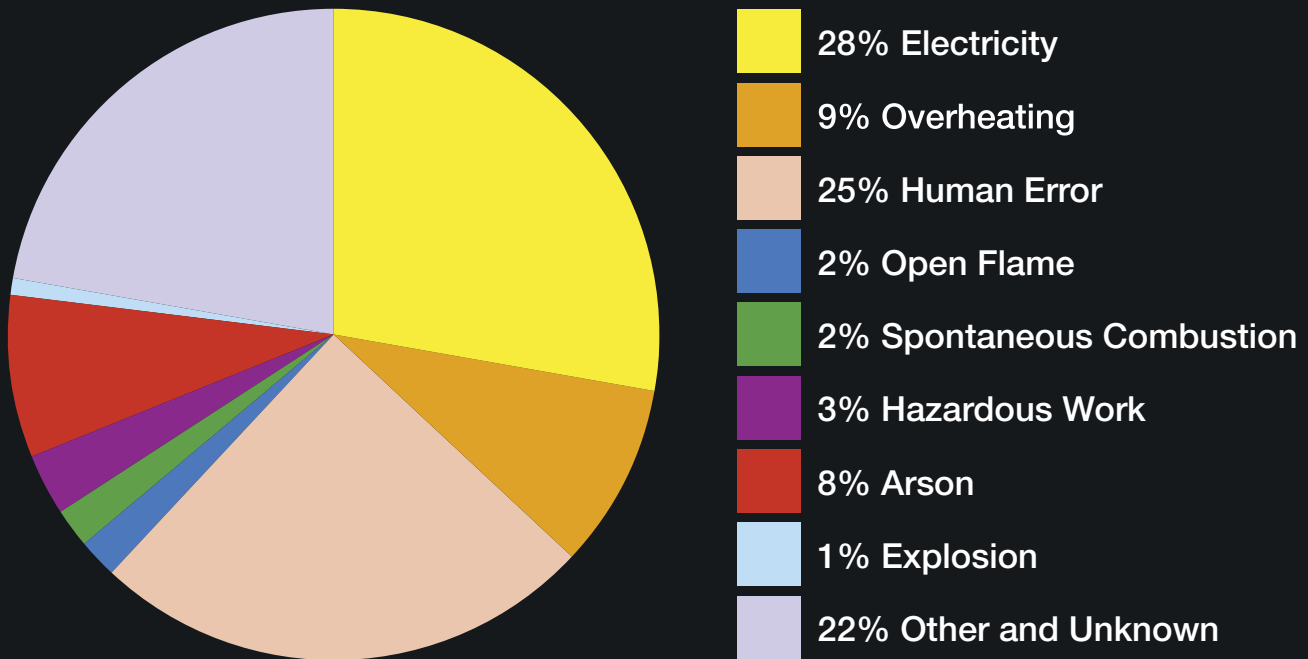
Never expose the fire extinguisher to mechanical damage or water sources to avoid damaging the extinguishing mechanism.

Fire Extinguishing Systems	Fire Destroyer	Traditional Fire Extinguisher	Sprinkler Systems
Price	✓	✓	✗
Installation costs	✓	✓	✗
Maintenance	No maintenance required	No maintenance required	No maintenance required
Training	We offer a short online training	Required	Not required
Annual device inspection	Not required	Required	Not required
Portable device	✓	✓	✗
Self-activation	✓	✗	✓
Extinguishing distance	Not required	Abstand vom Feuer erforderlich	Not required
Safety signal	Up to 120dB depending on the product	✗	✓
Response time	3-5 seconds from contact with fire	In the presence of people	Upon smoke detection or 70°C at the bulb
Weight	90 g - 6,0 kg	1,0 kg - 6,0 kg	Variable
Cleanup after activation	Depends on the extinguishing agent	Depends on the extinguishing agent	Drying the area
Environmentally friendly	✓	✓	✓
Warranty	3-5 years	1 years	1-5 years
Required installation time	1 - 15 minutes	15 minutes	Lengthy process
Damage to electronic devices	Varies by product	Depends on the extinguishing agent	✗

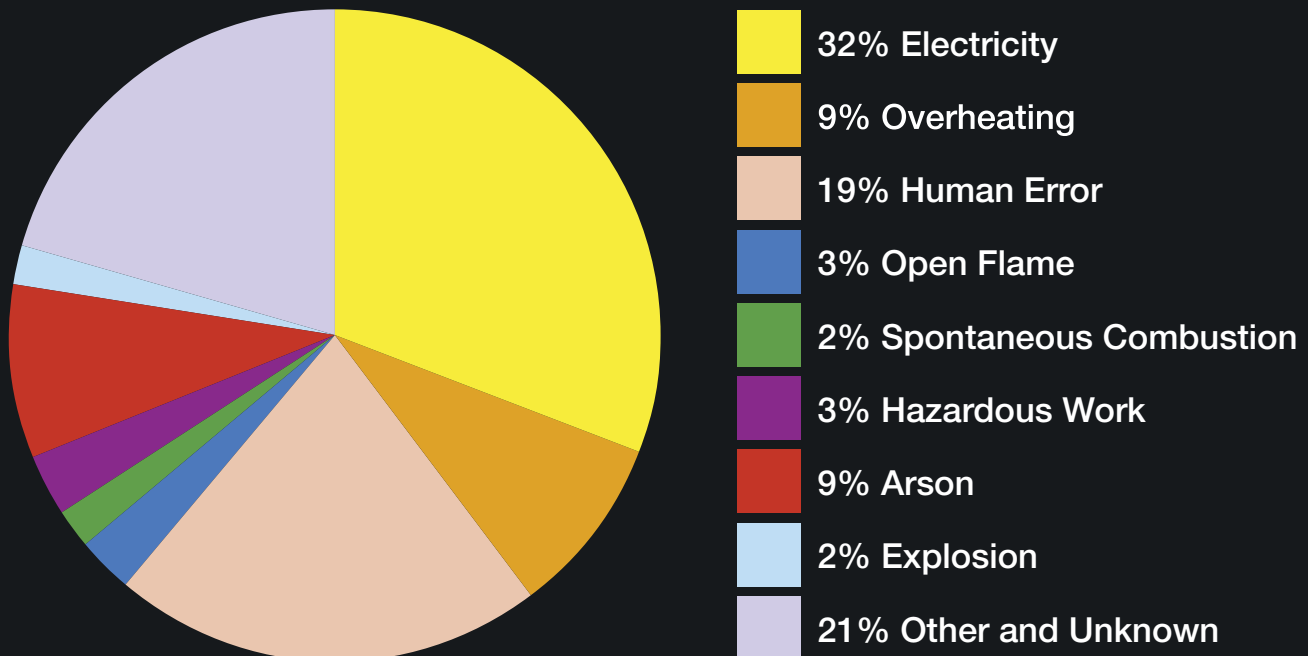
6. STATISTICAL DATA

Fire Cause Statistics for 2022:

The statistics have been maintained since 2002, based on the claims database.



Overall Statistics for 2002 to 2022:



Published by the Institute for Loss Prevention
and Loss Research of Public Insurers e.V.

Facts

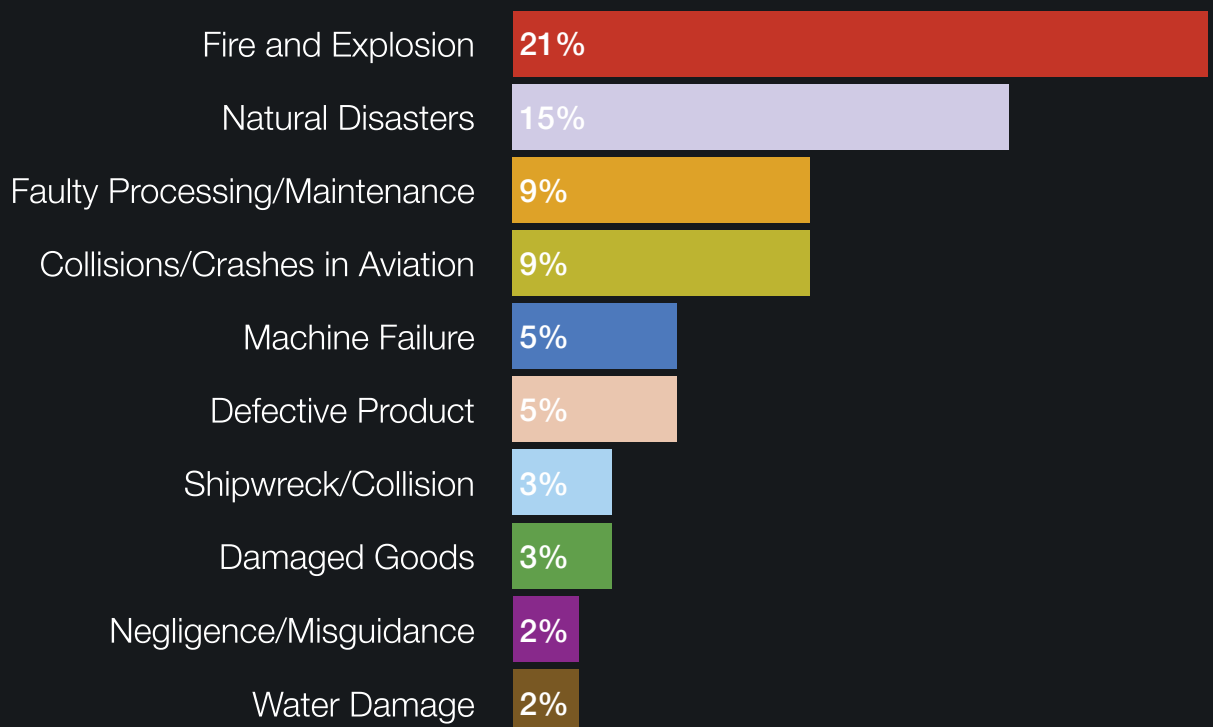
- A fire breaks out in Germany every 2 minutes.
- In 2021, there were a total of 197,834 fires and explosions, according to the German Fire Department Association.
- The average damage cost in Germany is 122,000 euros.
- From 2017 to 2021, a total of 47,365 insurance claims in Germany amounted to around 5.8 billion euros.
- Analyses show that an increasing number of companies experience production shutdowns as a result of property damage.
- The average claim in property and business interruption insurance today exceeds 3.8 million euros, compared to 3.1 million euros five years ago.
- Several independent studies reached the same conclusion: many companies affected by major fires did not resume operations and were forced to file for bankruptcy.

Top 10 Causes of Damage by Total Value (2017 - 2021)

Based on an analysis of 534,456 corporate insurance claims between January 1, 2017, and December 31, 2021, amounting to approximately 88.7 billion euros. The total number of claims includes those from AGCS as well as other insurers.

Source: Allianz Global Corporate & Specialty (AGCS).

This report from Allianz industrial insurer AGCS shows that fires and explosions, accounting for 21% of the total damage volume, are the largest single cause of damage. „Other“ causes make up 26% of the total damage value.



7. FIRE DESTROYER AEROSOL DISC

Countless Applications!

The FIRE DESTROYER AEROSOL DISC is suitable for all areas. With its large extinguishing volume and 10-meter fuse, it can secure any space. The disc has an extinguishing volume ranging from 1m³ to 10m³ and can be used in various settings.

Installation:

The FIRE DESTROYER AEROSOL DISC is mounted on a flat surface with four screws, and the fuse is laid out throughout the entire area of the potential fire source. Upon contact with fire, the mechanism activates within 3-5 seconds, and the extinguishing agent is dispersed throughout the room. The FIRE DESTROYER AEROSOL DISC provides active fire protection in areas with expensive technology that should not be damaged by extinguishing agents. Due to the product's size and the capacity of the extinguishing agent, this product is suitable for rooms up to 10 m³. It is suitable for installation in various rooms and areas.



Technical Specifications:

- The extinguishing agent is harmless to the environment and humans.
- Response time: 3-5 seconds.
- Fire classes: A, B, C, F.
- Dimensions: Small 80 mm x 90 mm; Large 305 mm x 90 mm.
- Extinguishing volume: 1.5m³ (150g), 3m³ (300g), 10m³ (1000g)
- Extinguishing agent: AEROSOL Type S
- The disc has a lifespan of 4 years and requires no additional maintenance.
- Estimated installation time: 15 minutes.

Common Causes of Fires:

- Old, worn-out fuses
- Improper connections
- Overloaded electrical network
- Poor material quality
- Overheating
- Contamination
- Mechanical damage
- Damage caused by rodents

Step-by-Step Instructions:



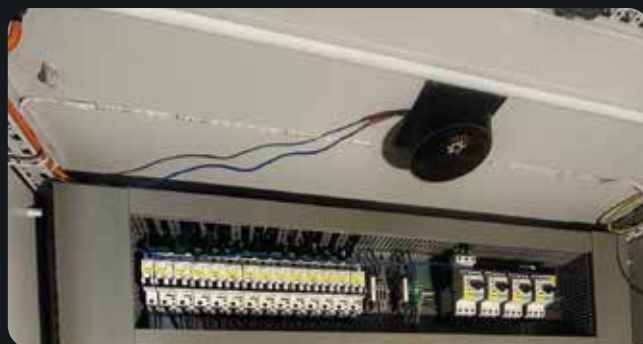
1. Clean the selected area.



2. Position the aerosol disc at the chosen spot.



3. Secure it with all four screws.



4. Lay the fuse behind the cover/at the fire source.



That's it. Make sure all screws are tightened.

Scope of Delivery: The box contains 4 screws, a 10-meter fuse, and an automatic fire extinguisher with four mounting holes.

Step-by-Step Instructions:



1. To start the process, first open the cover of the fuse box.



2. Ensure that the selected area is thoroughly cleaned to ensure optimal adhesion.



3. Stick the sticker onto the desired position and press it firmly, making sure it is securely and evenly applied.



4. Repeat this process for all sections you wish to secure. Once all stickers are in place, the installation is complete.

Questions and Tips:

Why do I need to unscrew the cover?

The sticker should be placed inside, near the cables, as that is where fires are likely to start. In the event of a fire, the sticker can then directly extinguish the flames.

Why should I place a sticker in each section?

In the image from Step 3, you can see that the individual sections are separated by walls. These walls prevent the gas from extinguishing other sections. Therefore, it is recommended to secure each section individually.

Where is the best place to stick the sticker?

Generally, Fire Destroyer products should be placed above the potential fire source. If the sticker is placed too low, there is a risk that a fire may start above it and the sticker may not be directly exposed to the flame, leading to a delayed response. It is also recommended to apply multiple stickers if the fuse box is quite large. This way, a flame starting at the bottom does not need to travel up before being extinguished.

9. FIRE DESTROYER BALL

Ready for the Unexpected!

The FIRE DESTROYER BALL provides excellent active fire protection and is suitable for use in the following areas:

Industrial Facilities (welding shops, grinding shops, facilities with chemical products, over machines in production areas, in tunnels with electrical wiring, in warehouses, substations, business premises, data cabinets, computers, etc.)

Agricultural Operations (barns, sheds with agricultural machinery, stables, etc.)

Households (heating rooms, attics, heat pump rooms, garages, over electrical cabinets, etc.)



Installation:

The FIRE DESTROYER BALL should be installed near a potential fire source or above valuable items. It can be mounted on the ceiling, hung on a wall, or simply placed on a flat surface.

Technical Specifications:

- Extinguishing Agent: Dry powder ($\text{NH}_4\text{H}_2\text{PO}_4$), harmless to the environment and people.
- Fire Classes: A, B, C, F.
- Upon contact with fire, the mechanism activates within 3-5 seconds, and the extinguishing agent is dispersed as powder throughout the room.
- The dimensions of the balls range from 80-236 mm, and weights from 0.2 kg to 6 kg:
 - TYPE 1: Weight: 0.2 kg; Diameter: 80 mm.
 - TYPE 2: Weight: 1.3 kg; Diameter: 150 mm.
 - TYPE 3: Weight: 2.8 kg; Diameter: 186 mm.
 - TYPE 4: Weight: 6.0 kg; Diameter: 236 mm.
- The extinguishing volume in the ball ranges from 0.3 m³ to 12 m³.
- The ball has a lifespan of 5 years and requires no additional maintenance.
- The noise level upon activation can reach up to 120 dB.

Common Causes of Fires:

- Old, worn-out fuses
- Improper connections
- Overloaded electrical network
- Poor material quality
- Overheating
- Contamination
- Mechanical damage
- Damage caused by rodents

Step-by-Step Instructions for Standing Installation:



When it comes to installing the ball with the bracket, you have two options to choose from.



1. Start by positioning the bracket so that it is stable, with the smaller opening facing upwards.



2. Next, place the ball onto the bracket. The installation is complete after this step.



1. To mount the fire extinguisher in the bracket, first mark the positions for the bracket and then drill the corresponding holes.



2. Insert the anchors and then attach the bracket using the screws. Ensure that the small opening of the bracket is facing downwards.



3. Once the bracket is securely in place, place the ball into the bracket to complete the installation.

Step-by-Step Instructions for Hanging Installation:



1. First, choose a suitable location above the potential fire source.



2. Attach the chain above the fire source. The chain should be positioned about 20-50 cm above the fire source.



3. Once the chain is installed, hang the ball on the chain to complete the installation.

10. FIRE DESTROYER DISC with ABC Powder

Travel with peace of mind!

The FIRE DESTROYER DISC is designed for installation in the engine compartments of vehicles and ships. Thanks to its design and easy installation, the disc offers a very simple solution to prevent major fires. When the flame comes into contact with the disc, it automatically activates, dispersing the extinguishing agent and extinguishing the fire.



Installation:

- Engine compartments (trucks, buses, vans, cars, agricultural machinery)
- Machinery rooms (boats and ships)
- Confined spaces where there is a fire risk

Technical Specifications:

- Extinguishing Agent: Dry powder ($\text{NH}_4\text{H}_2\text{PO}_4$), harmless to the environment and humans.
- Reaction Time: 3-5 seconds.
- The extinguishing capacity of the FIRE DESTROYER DISC is sufficient to cover up to 1m^3 . Effective for fires of Class A, B, C, and F.
- The FIRE DESTROYER DISC has a lifespan of 3 years and requires no additional maintenance during this time.
- Dimensions: 800 g, Diameter 130 mm * Height 55 mm.
- Estimated Installation Time: 15 minutes.

Common Causes of Fires:

- Overheating of the engine
- Wear and tear
- Faulty electrical installations
- Damage to installations from rodents
- Wear or damage to the fuel supply to the engine, heating system (stationary truck).

Step-by-Step Instructions:



1. Start by thoroughly cleaning the chosen area. A clean surface ensures optimal adhesion and functionality of the disc.



2. Position the bracket so that it is firmly and securely mounted and can safely hold the Fire Destroyer Disc.



3. Next, screw all eight screws with washers firmly into the surface. Ensure that the screws are tightened evenly to provide a secure attachment.



4. Finally, screw the Fire Destroyer Disc onto the bracket. Make sure all screws are tightened to ensure a safe and reliable installation.



5. Once this is done, the installation is complete.

11. AREAS OF APPLICATION

FIRES IN INDUSTRY

The occurrence of a fire is enabled by the presence of energy in various forms:

- Thermal energy (e.g., the use of open flames)
- Electrical energy (e.g., sparks caused by contact between a live wire and a neutral wire)
- Mechanical energy (e.g., sparks generated during metalworking with a grinder)
- Chemical energy (e.g., reaction of water with a large amount of acid)
- Biological energy (e.g., microbiological activity in hay)

Causes of industrial fires:

- Hot work without fire watch (e.g., the use of open flames, welding, grinding, etc.)
- Natural events (e.g., lightning, earthquakes, wind, etc.)
- Electricity (e.g., improper use of equipment, short circuits, overloads, outdated electrical wiring, discharge of accumulated static electricity, etc.)
- Structural defects (e.g., outdated building components, insufficient maintenance of machinery and equipment, accidental use of facilities, etc.)



Vehicles

Burning vehicles often have devastating consequences. Fires pose a danger not only to the driver but also to other road users. In addition to damage to the vehicle, there is also a high risk of damage to the cargo, which in most cases could have been avoided.





Boats, Yachts, and Ships

The most common causes of fires on a ship are the crew's use of open flames, smoking, galley fires, and overloaded electrical systems. Although the crew is trained in fire prevention, negligence often occurs. Improper disposal of smoke gases and an excessive number of electrical devices connected to control panels are the most common fire causes. At the top of the ship's superstructure is the bridge. All navigation equipment (rudder, radar, transmitter, propulsion control, etc.) is connected to the emergency power supply via batteries installed in the superstructure. This allows the equipment to be used in the event of a power failure before the emergency generator is activated. If the batteries are not regularly checked and maintained, this can lead to hydrogen build-up, which can cause fire or explosion as they are constantly charged.

The engine room of a ship is the most critical area for the outbreak of fire. Such a fire can be compared to one in industrial facilities. Many devices can trigger fires. In addition to the large propulsion engines, the engine room also houses diesel generators, turbines (gas, steam), fuel separators (cleaners), day fuel tanks, lubricating oil tanks, air compressors, refrigeration systems, a large number of pumps driven by electric motors, a steam boiler, a spare parts store, a workshop with machine tools, and some other equipment. Fires most often occur due to flammable liquids and electrical systems.

Residential Fires

According to statistics, 64% of fires in Germany occur in private homes. These are the deadliest, as a quarter of all fires happen between 10 p.m. and 6 a.m. when we are asleep, and are responsible for 70% of all fire-related deaths.



EU-TYPE EXAMINATION CERTIFICATE
according to Directive 2013/29/EU
Nº.: PA 1395-0215/2024

Name of article: QRR0.006 GW/ST
Derived variants: see Annex Nº. 1 of this certificate
Type of pyrotechnic article: Other pyrotechnic articles, category P1 - Smoke / Aerosol generator
Subtype: Pyrotechnic fire-fighting device
Registration number: 1395-P1-0215/2024
Manufacturer: Germa trade d.o.o.
Spodnja Hajdina 21
2288 Hajdina
SLOVENIA
Applicant: Germa trade d.o.o.
Spodnja Hajdina 21
2288 Hajdina
SLOVENIA

Notified body 1395 certifies, based on Government Ordinance Nº. 70/2015 Coll. that the aforementioned article has been found to be in conformity with all relevant requirements of Directive 2013/29/EU.

Examinations and certifications of the submitted sample and technical documentation represent the base of the certificate issuance. The certificate cannot be used as a certificate for product where a change influencing conformity with the applied documents and provisions was done without approval of the Notified body 1395.

Basis for the certificate issuance: Final report Nº.PA 1395-0215/2024 of Oct 10, 2024

The certificate is valid without temporal restrictions.

In Dubnica nad Váhom, date: Oct 10, 2024



Ing. Daniel Nemček
Director NB 1395

Note: The conformity assessment procedure is not completed by issuance of this certificate. The article(s) can be placed on the market/made available on the market after issuance of the certificate of the following module (C2, D, or E).

E-version of this document is digitally signed by persons whose name and function are depicted in the graphic form of the signature.

Annexes this certificate: Nº. 1 Characterization of the article(s)
Nº. 2 Assessment of the ESR
Nº.3 Final report of conformity of product
Nº.4 Technical documentation of the article(s)

KOTA D- 500

EU-TYPE EXAMINATION CERTIFICATE
according to Directive 2013/29/EU
Nº.: PA 1395-0214/2024

Name of article: TY01-0500B
Derived variants: see Annex Nº. 1 of this certificate
Type of pyrotechnic article: Other pyrotechnic articles, category P1 - Smoke / Aerosol generator
Subtype: Pyrotechnic fire-fighting device
Registration number: 1395-P1-0214/2024
Manufacturer: Germa trade d.o.o.
Spodnja Hajdina 21
2288 Hajdina
SLOVENIA
Applicant: Germa trade d.o.o.
Spodnja Hajdina 21
2288 Hajdina
SLOVENIA

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In Dubnica nad Váhom, date: Oct 10, 2024



Ing. Daniel Nemček
Director NB 1395

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Nº.3 Final report of conformity of product
Nº.4 Technical documentation of the article(s)

KOTA D- 500

EC DECLARATION OF CONFORMITY

(for Pyrotechnic Articles Directive 2013/29/EU)

Reference: iiT2306130659B / Jun.13th, 2023

This is to certify that the following designated products:

Product : FIRE EXTINGUISHER BALL; AUTO FIRE EXTINGUISHER DEVICE
THROWING FIRE EXTINGUISHER DEVICE
Description : TY01-0500B, TY01-0600B, TY01-1200B, TY01-1300B, TY01-1350B,
TY01-2000B, TY01-2800B, TY01-4000B, TY01-6000B, TY-0300, TY-0800,
TY-0100, TY01-102T, TY01-103T, TY01-105T

comply with the essential health and safety requirements of Regulation 2013/29/EU, referred to on the market of pyrotechnic articles (recast).

This declaration was based on the following Standards:

European Standard : EN 15276-1:2019
Report Number : NI2306062306130654

This Declaration of Conformity is the responsibility of the Applicant:

Applicant Name : GERMA TRADE D.O.O.
Address : SPODNJA HAJDINA 21, 2288 HAJDINA, SLOVENIA

Statement:

Based on an evaluation of a sample of the above mentioned product, we can confirm that a technical file exists for the submitted sample. The manufacture is allowed to affix the CE mark to the products under its own responsibility.

This Declaration of Conformity, must accompany the product when it put to the market.

The manufacturer is responsible for the product and ensuring that all manufactured products are in compliance with the essential health and safety requirements of EC directive.

Issue date : Jun. 13th, 2023

Expiry date : Jun. 12th, 2026

ILAND PAPER



01823061306598



For ILAND TESTING & CERTIFICATION

General Director

Please send the certificate to service@ilandlab.com for verify the authenticity.

ILand International Testing and Certification LTD.
12 Fishamble Street Dublin City Dublin 2 Dublin IRELAND
<http://www.ilandlab.com> E-mail: service@ilandlab.com

EC DECLARATION OF CONFORMITY

(for Pyrotechnic Articles Directive 2013/29/EU)

Reference: IIT2306130660B / Jun.13th, 2023

This is to certify that the following designated products:

Product : S-TYPE AEROSOL FIRE-EXTINGUISHING STICK

Description : QRR0.006GW/ST, QRR0.012GW/ST, QRR0.024GW/ST, QRR0.036GW/ST

comply with the essential health and safety requirements of Regulation 2013/29/EU, referred to on the market of pyrotechnic articles (recast).

This declaration was based on the following Standards:

European Standard : EN 15276-1:2019

TCF : NI2306062306130655

This Declaration of Conformity is the responsibility of the Applicant:

Applicant Name : GERMA TRADE D.O.O.

Address : SPODNJA HAJDINA 21, 2288 HAJDINA, SLOVENIA

Statement:

Based on an evaluation of a sample of the above mentioned product, we can confirm that a technical file exists for the submitted sample.

This certificate does not imply assessment of the production of the product.

The manufacturer is responsible for the product and ensuring that all manufactured products are in compliance with the essential health and safety requirements of EC directive.

Issue date : Jun.13th, 2023

Expiry date : Jun.12th, 2026

ILAND PAPER



01823061306608

For ILAND TESTING & CERTIFICATION



General Director

Please send the certificate to info@ilandlab.co.uk for verify the authenticity.

ILand International Testing and Certification LTD.

Devon House, Dartmouth Street, London SW1H 9BL, UNITED KINGDOM

<http://www.ilandlab.co.uk> E-mail: info@ilandlab.co.uk



FIRE DESTROYER

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