

FIRE DELETE

Product Data Sheet Fire Delete Spray



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Fire extinguisher spray - 400 ml

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1. Preface, general statements

Most fires can be stopped if reaction to fire is fast enough, which means, in the initial stage of fire. Quick reaction is the most important matter in fire fighting. Classical, heavy weight fire extinguishers, with complicated handling and activating, which requires reading of long manual, seldom can help to quick reactions. Therefore it is most important to always have at hand one fire extinguisher which is so easy to activate and use, that it provides immediate response and have great extinguishing power along with ecologically features.

Fire Delete fire extinguishing spray meets all this demands and even more.

• **Easy to place and access**

Fire Delete fire extinguishing spray is ready to use extinguisher, designed and intended for use in households, offices, storages, cars, caravans, boats, and other vehicles. It is small (diameter 66 mm, height 253 mm), and can be easily stored at suitable place or fixed by a holder at a significant place, text near to first-aid kit.

• **Instantly usable**

Fire Delete fire extinguishing spray is protected only by a plastic cap, which can be switched off without effort. It uses as each standard spray – shake and press. Use is mostly intuitive, and operation errors are virtually impossible.

• **Easy to use and maintain**

Fire Delete fire extinguishing spray delivers professional extinguishing technology to non-experts. And especially important, it can be used by child, very old persons and disabled persons.

Periodic maintenance or surveillance is unnecessary. Products lifetime and warranty is 5 years from date of production.

• **Safe to use**

Fire Delete fire extinguishing spray have discharge distance of approximately 6 meters, so fire can be extinguished from the safe distance, which is

especially important when extinguishing electric installations and devices.

• **Great extinguishing power and wide scope of operation**

Thanks to its extinguishing agents and extinguishing techniques, Fire Delete fire extinguishing spray, works with great efficiency when extinguishing starting fires.

Furthermore it has wide scope of operation – it extinguishes fires of classes: A, B and F, and fires on electrical installations and devices. So it is not necessary to purchase different fire extinguishers for different kinds of fires.

• **No collateral damages**

There are no any side effects or collateral damages for the persons or for the rooms when Fire Delete fire extinguisher operates.

Fire Delete fire extinguishing spray heavily eliminates smoke in area of extinguishing, so if there are any persons in the room, they can breathe without problems.

• **Eco-friendly product**

Fire Delete fire extinguishing spray is an Eco-friendly product, which means that it is not toxic or harmful for people, animals, ozone layer or environment, and its content and packaging is easily recyclable. Most of the ingredients are completely natural.

It is suitable for use in natural parks, water intake areas for drinking water, drinking water plants and other nature or water protected areas.

Eco-Friend

2. Specification

Extinguishing power of Fire Delete fire extinguishing spray for solid – fire class A (wood, paper, textiles...) and liquid substances – fire class B (gasoline, diesel fuel ...) as well as for edible fats and oil – fire class F, was widely proved in practice in different situations. Exact rating according to standard BS6165:2002 will be proved soon by recognized inspection authority in European Union.

Fire Delete fire extinguishing spray can be used to extinguish fire at live electrical equipment with voltages up to 1000 Volts if the minimum distance of 1 m is maintained.



Certificate of Warranty

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3. Technical Data

Diameter:	_____ 66 mm
Height:	_____ 253 mm
Weight approx.:	_____ 500 g
Total volume:	_____ 650 ml
Volume (net):	_____ 400 ml
Working pressure approx.:	_ 9 bar (0,9 MPa) ±5%
Discharge Distance:	_____ approx. 6 m
Discharge time minimal:	_ 20 sec.
Discharge medium:	_____ Nitrogen
Extinguishing agent:	_____ Fire extinguishing liquid agent Fire Delete
Extinguishing fire classes:	_ A, B and F
Burst pressure average:	_ 23.2 bar
Storage Temperature:	_____ -5 °C – 55 °C
Minimum durability:	_____ 5 years
Production date:	_____ Printed at bottom of spray can

4. Description of function

Extinguishing agent is released by pressing the spray nozzle. The extinguishing effect is actively supported by the generated dispersing of active liquid into tiny droplets (nebulation).

5. Mode of functioning

Active fire extinguishing agent is water based liquid agent enriched by chemical compounds which removes or blocks the 3 basic fire triangle elements: heat – oxygen – fuel. Fire Delete active liquid saponified the burning fuel, so reignite becomes impossible.

Extinguishing effect is supported by a homogenous, cone-shaped geometry of the spray flow and by dispersing of active liquid into tiny droplets (nebulation).

Fire Delete fire fighting mechanisms activates and removes the 3 basic fire triangle elements (Heat – Oxygen – Fuel):

- Fire Delete liquid droplets evaporations process removes heat.
- Fire Delete Inert Steam creating lack of oxygen supply to fuel but in same time the oxygen is not

removed for people (operators).

- Fire Delete liquid agent saponifies the burning fuel (surface protecting film is created) and does not allow free radicals and gases to become airborne and bond with oxygen in air.

Detailed description of the action:

A. Rapid cooling down effect – here the liquid droplets cools burning material by rapidly absorbing heat from burning material, turns to inert steam and evaporates.

B. Inert steam – it bounds free burning radicals and toxic gases with Fire Delete Inert Steam, so if there are any persons in the area, they can breathe without problems. That way creates an operator friendly environment, which is especially important effect.

C. Adiabatic cooling process – demonstrate unique effective process which is cooling the air by evaporation of Fire Delete liquid agent. Evaporation is the process by which Fire delete liquid agent is quickly converted from liquid form to its vaporized form, transferring its liquid mass to the atmosphere and removing heated air away from burning materials. During Fire Delete liquid solutions droplets evaporations, three simultaneous processes are going on:

- Transfer of heat to the Fire Delete liquid droplet surface.
- Transfer of liquid mass from the Fire Delete droplet surface.
- Fire Delete droplets liquid mass with heat becomes airborne steam (effect name: Latent heat of evaporation, which we meet every day in nature: sun-rain-sun).

D. Saponification-Foaming process – Fire Delete liquid agent posses strong controlled chemical and mechanical processes of forming the protecting thin layer at surface of a burning fuel, which does not allow re-ignition. Fire Delete liquid agent, through mechanical dispersion, mixes large amount of inner gases with liquid, and by the agitation of liquid and inner chemical compounds creates a type of foam

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similar to the agitation of seawater (Ocean foam) derived from surface to offshore breakdown. Fire Delete liquid agent chemical compounds act as surfactants to lower the surface tension between two liquids, to create protecting thin layer and prevent re-ignition of fuel.

6. Application areas

Fire Delete fire extinguishing spray uses for extinguishing of solids – fire class A (wood, paper, textiles...) and liquids – fire class B (gasoline, diesel fuel ...) as well as for edible fats and oil – fire class F. Cooling effect of Fire Delete fire extinguishing spray can be used to cool surfaces and protect some items from fire.

7. Operation

Protecting plastic cap have to be removed. Then spray can have to be shaken, and extinguishing liquid have to be sprayed directly into the fire source. Safe distance have to be kept.

Active liquid is non toxic, and do not harms person

which uses spray. In case of contact with eyes or mouth it is recommended, but not mandatory, to wash away with water.

8. Storage

Fire Delete fire extinguishing spray should be stored at a temperature between -5°C and + 55°C. It should be protected against direct sunbeams.

The fire extinguisher should be stored at a dry place, easy to access.

9. Maintenance

Special maintenance or surveillance is not required. The minimal product lifetime is five years from the date of production.

10. Execution and delivery

Fire Delete fire extinguishing spray is designed and delivered in a simple 650 ml customary aluminium spray can.

11. Article packing

Article no.	Product - description	Quantity of units	Approximate dimension (L x W x H)	Approximate cube	Approximate shipping weight
FDS401	FIRE DELETE – fire extinguishing spray - Single unit	1	25,3 x 6,6 x 6,6 cm	-	0,5 kg (1.1 lb)
FDS402	FIRE DELETE – fire extinguishing spray - Cardboard	12	27,3 x 20,4 x 26,5 cm	0,015 m ³	6,3 kg (13.89 lb)
FDS411	FIRE DELETE – fire extinguishing spray - Euro Palette	1008	120 x 80 x 174 cm	1.670 m ³	553.2 kg (1219.60 lb)

12. Miscellaneous

You can watch Fire Delete fire extinguishing spray in action in a video at web address:
www.firedelete.com

