



FIRE SAFETY EQUIPMENT

شركة سيف للخدمات التجارية
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mar 1
مار ١



منتج صديق للبيئة

سائل اطفاء الحرائق يعبأ في جميع أنواع الطفايات



mar 2
مار ٢



منتج صديق للبيئة

لإطفاء الحرائق الكبيرة (الدفاع المدني)



Driven by the slogan “ **Way of Safety, Way of Fire Killer** ”

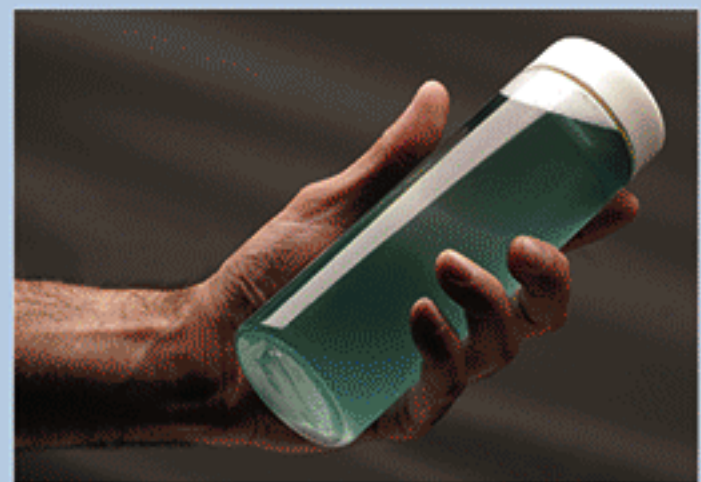
We protect lives and properties through innovative technology in Fire Safety.

our products **MABO, MAB, MAR1, MAR2**

are very safe and easy to use even by women, children and disabled.

We provide total fire protection solutions to the most prestigious developments around the world, including **residential buildings, governmental users, commercial complexes, telecommunication centers, industrial installations, oil refineries and petrochemical plants and airport installations.**

Our company is renowned for providing superb quality and assuring the timely performance of its products at all times. With simple yet effective ecological fire extinguishers of small sizes that can be held in one hand and diluted non-toxic liquids that can be added to water, **Fire Killer** dedicated itself to the science of firefighting.



Products

MABO, MAB, MAR1, MAR2.

Our products are distinguished by:

- Non-Toxic, high bio-degradability, environmental friendly, no corrosion, harmless.
- User friendly products, they can be used by disabled persons, women , children without side effects.
- Suffocate the flame with high efficiency.
- Extreme cooling down effect due to the evaporating water
- Neither harmful gasses nor toxic residue.
- No re-ignition of the fire with our products. That carries a temporary and future advantage. After using our products, no fire will be again. This provides future safety.
- No time-loss before start extinguishing the fire. Our products are different from toxic products where they have to secure the perimeter around the fire.
- Avoiding water use and water damage, Fire Killer products have 30x efficiency increase in comparison to water used in firefighting indoor less need of water.
- Fire Killer liquids can be used in existing equipment of the fire fighters, fire extinguishers and fire fighter machines.
- Long-life products. They have long expiry date.
- No need for training to use our products.
- High capacity with low costs and less damage.

Fire Killer endeavors to continually and effectively improve the quality of its products in accordance with the requirements of international standards.

Motivated by our slogan “ **Way of Safety, Way of Fire Killer** ”

We strive to be the global leader in providing comprehensive and reliable fire protection solutions to make the world a safer place to live in.

We developed fire fighting products using new technologies and remarkable technological advances All efforts have been made for development of truly professional products to meet the requirements of customers, professional and governmental users.

For all ages, our products are safe and easy



mab grenade fire extinguisher is a especially newly developed fire fighting product intended for initial fires

simply take it and throw it into fire, it extinguishes the fire in a few seconds

seconds counts when lives are on the line. In fact, in the first five minutes after ignition, fire doubles in size every thirty seconds

when the fire breaks out, it is too late to begin learning how to use a fire extinguisher to prevent a total destruction by fire

- it is more important to put out a fire in its initial stage,
- statistically, over 90% of people do not know how to use a conventional fire extinguisher,
- it is not easy to use the conventional fire extinguisher due to difficult handling
 - ⇒ too heavy to carry it quickly to the place of fire,
 - ⇒ difficult access caused by the heat and flames in the place of fire

mab is the first aid and a perfect solution for the complaints on the existing conventional fire extinguishers

mab has been tested and approved for:

- toxicity and environmental impacts,
- as well as for efficiency

by the many national, EU and other independent international accredited bodies (laboratories and institutes), in accordance with strict and relevant standards that apply on all markets



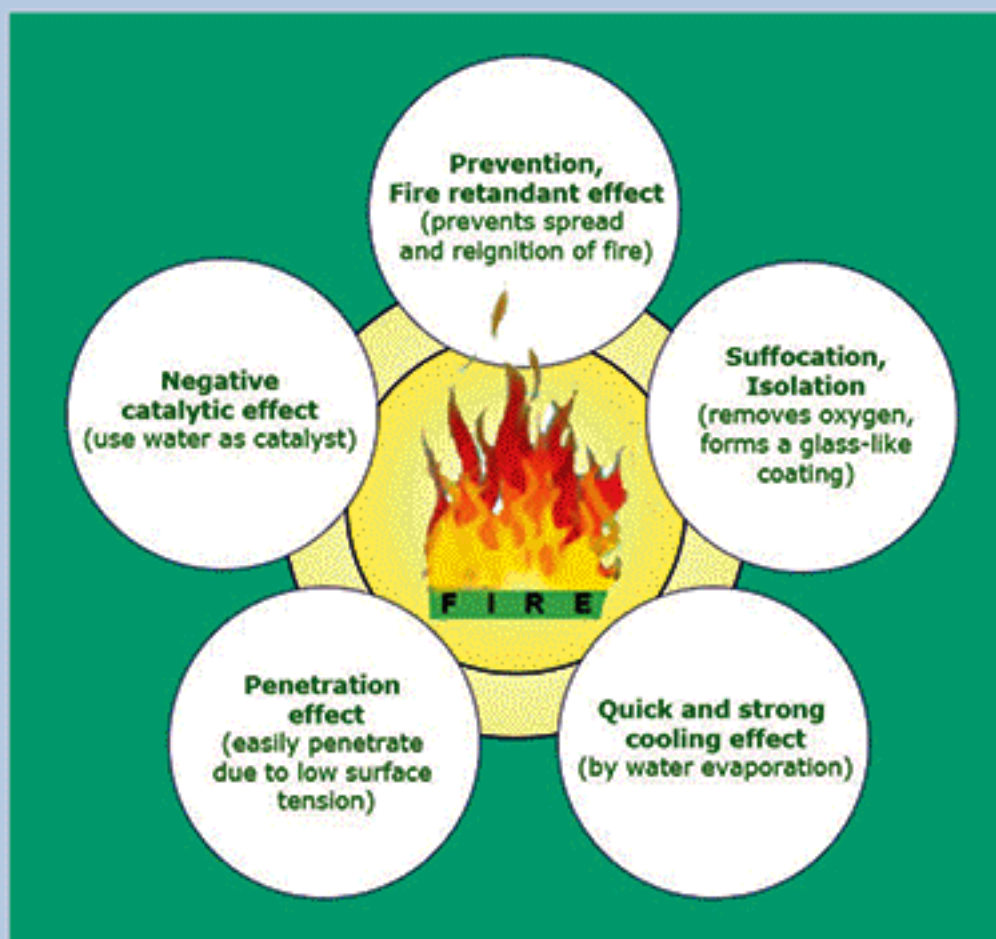
Take and Throw





features and benefits

- **mab solution is specially formulated as**
 - ⇒ clean, non- toxic, non- corrosive product,
 - ⇒ environmentally compatible - harmless to humans, animals , rapid, fully biodegradable and free of residue,
 - ⇒ water based, made with harmless plant based and food-grade materials,
 - ⇒ have zero ozone depletion potential (ODP) – no dangerous for ozone layer,
 - ⇒ do not contribute in any way to global warming (GWP)- zero global warming,
 - ⇒ and has no concern about its atmospheric life,
 - ⇒ extinguish fire safe, fast, less damage to property, and without risk to firefighters,
 - ⇒ an amazing unique features - when diluted in water it gives a solution with extremely increased efficiency which extinguishes large fires indoors/outdoors
- **extinguishing performance**
 - ⇒ quick and strong cooling effect (by water evaporation),
 - ⇒ suffocation, isolation (removes oxygen, forms a glass-like coating),
 - ⇒ heavy smoke eliminating effect (secure visibility) ,
 - ⇒ penetration effect (easily penetrate due to low surface tension),
 - ⇒ negative catalytic effect (use water as catalyst),
 - ⇒ evaporation control,
 - ⇒ prevention, fire retardant effect (prevent reignition).





- discharge area - indoors - up to 16 m³
- outdoors

- classes of fires



energized electric equipment
(no short circuit effect)

- operating range: -25 °C to +50 °C

two fire extinguishing ways

- by throwing grenade

- ⇒ just take and throw fire buster in the burning object directly
- ⇒ or against a wall or anything that would enable the solution to disperse, covering the burning area to the widest possible extent

- dilution of solution with water

- ⇒ one of its amazing unique features is when diluted in water (approx. 5-6 %), it gives over 25 x more effective solution than water without degradation of its properties and it is also exceptionally effective for large fires outdoors

- easy usage

- ⇒ you do not need to get close to the fire
- ⇒ just take and throw

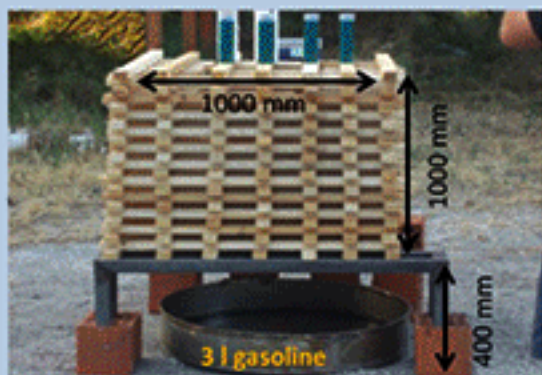
- suitable for everyone in any environment

- ⇒ due to its simplicity, even can be used by: children, old people, the handicapped persons,...
- ⇒ it allows to escape the immediate danger of smoke inhalation, fire and potential death

- highly economical product

- ⇒ cost effective, since it can be diluted with water – low application rate
- ⇒ without side effects after extinguishing that means
- ⇒ no residue that can cause costly post- fire cleanup and downtime
- ⇒ maintenance free
- ⇒ 5 years life span
- ⇒ aesthetically attractive design
- ⇒ small size and light weight (190 x Ø 64 mm, resin bottle 500 ml, 640 g)

Test ISO Model – Class A Fire



4 pcs (1,88 l) = 30 l water

B Class Fire (croude oil)



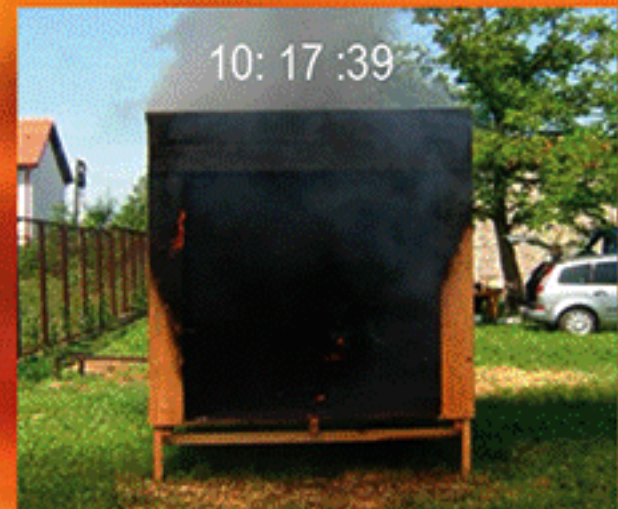
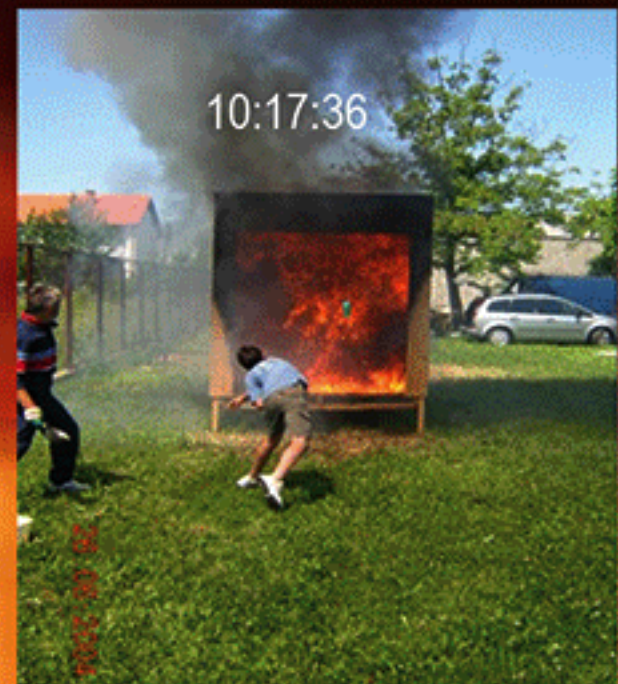
Deluted with Water





application range

- suitable for all places - the widest possible range of all protection domains of human lives and property
 - ⇒ military, police, special police, Riot police, SEK Polizei...
 - ⇒ civil defense (local and government)
 - ⇒ private security service
 - ⇒ maritime industry and transportation passenger ships, yachts, airports, trams, trains, buses, cars, etc.
 - ⇒ protection of household, business premises, hotels, restaurants, shops, camps, hospitals, schools, museums, libraries, churches , etc.



mabo



automatic fire extinguisher

mabo is an automatic fire extinguisher which extinguishes the fire when the solution reaches the temperature of 84°C, the glass ampoule automatically bursts open and the dispersed solution instantly extinguishes the fire

mabo has been tested and approved for

- toxicity and environmental impacts,
- as well as for efficiency

by the many national, EU and other independent international accredited bodies (laboratories and institutes), in accordance with strict and relevant standards that apply on all markets



1.Time: 11:25:06



2.Time: 11:25:26



3.Time: 11:25:30



4.Time: 11:25:35



mabo



features and benefits

- **mabo solution is specially formulated as**
 - ⇒ clean, non- toxic, non- corrosive product,
 - ⇒ environmentally compatible - harmless to humans, animals , rapid, fully biodegradable and free of residue,
 - ⇒ water based, made with harmless plant based and food-grade materials,
 - ⇒ have zero ozone depletion potential (ODP) – no dangerous for ozone layer,
 - ⇒ do not contribute in any way to global warming (GWP)- zero global warming,
 - ⇒ and has no concern about its atmospheric life,
 - ⇒ extinguish fire safe, fast, less damage to property, and without risk to firefighters
- **extinguishing performance**
 - ⇒ quick and strong cooling effect (by water evaporation),
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FLAMAUTO
Transformer Testing
28/01/10 EDF
(Electricite de France)

5 Liters gasoil + 10 Liters oil Transformer
Open Space, 100km/h wind



Automatic Activation



mabo



automatic fire extinguisher

• basic use – indoor only (closed spaces) - up to 16 m³

• classes of fires



mabo does not cause any short circuit in equipment under any voltage

• operating range: -25°C to 63°C

• highly economical product

- ⇒ without side effects,
- ⇒ no residue that can cause costly post- fire cleanup and downtime,
- ⇒ simply to mount (on a wall or ceiling),
- ⇒ it does not require any technical knowledge,
- ⇒ maintenance free – by eye control only,
- ⇒ over 10 years of shelf life,
- ⇒ small size and light weight (88 x 308 x 39 mm), ampoule 580 ml, 1025 g

Integrated automatic fire extinguishing system MUNICflame

MUNICflame – Safety through networking

System approach
MUNICflame uses a totally new fire extinguishing medium incorporating laser telematic solutions. It does not only allow the active control of the extinguishing process but also facilitates a direct optical view into the fire and the environmental parameters. In addition there is access to the geo-coordinates and on the status of possible hazardous material on site.

System solution

System components

- (1) Flamak extinguishing agent
- (2) P.O.I Burnant
- (3) P.U.C Communication Gateway
- (4) Fire detector
- (5) IP camera
- (6) Mobile access



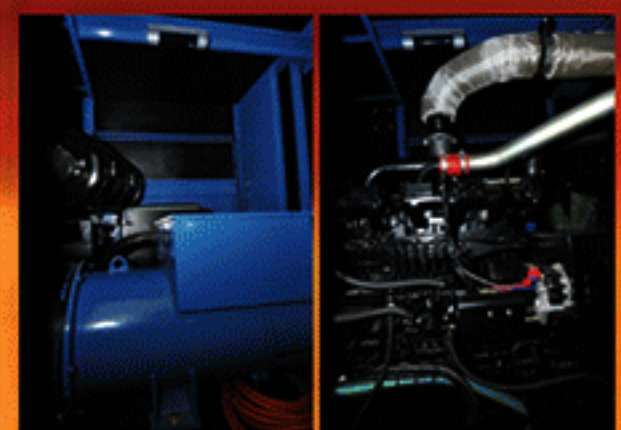
application range

mabo is an excellent option to protect high-value property such as

- electric transformer industry - particularly suitable for power transformers
- electric cupboards, panels and on electrical clark charging systems, indoor substations, subterranean transformer
- prefabricated substations etc..
- small ships (fishing boat or pleasure type), passenger boats, yachts (engine rooms, fuel storage), boiling rooms, buses, locomotives...etc.



Power Transformers Fires



School Buses (Diesel Engine)





mar is multi-purpose fire extinguishing composition that has been successfully designed to quickly extinguish all class of fires

- mar 1 liquid for fire extinguisher and equipment under the pressure
- mar 2 forest fire extinguishant – additive for equipment under the pressure
- mar 2s 1-3% additive for forest and D class of fire

mar has been tested and approved for

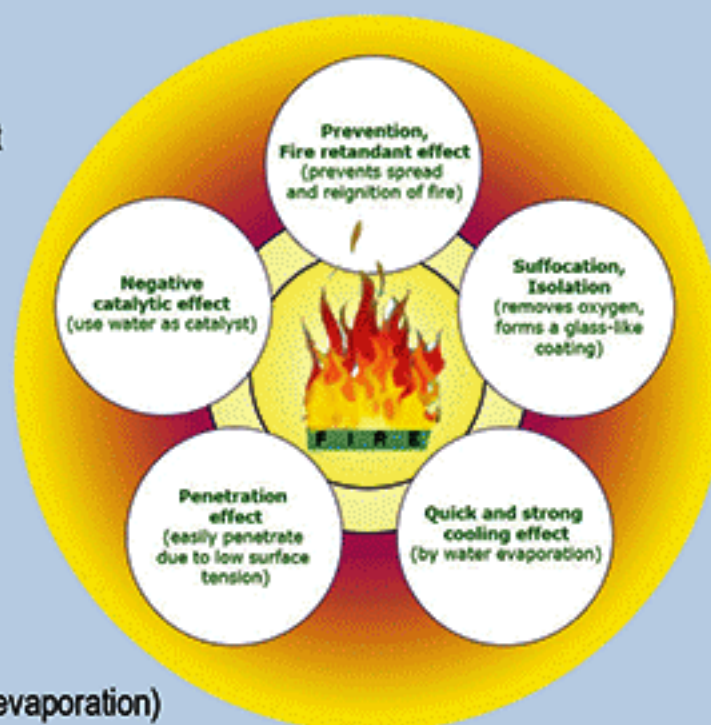
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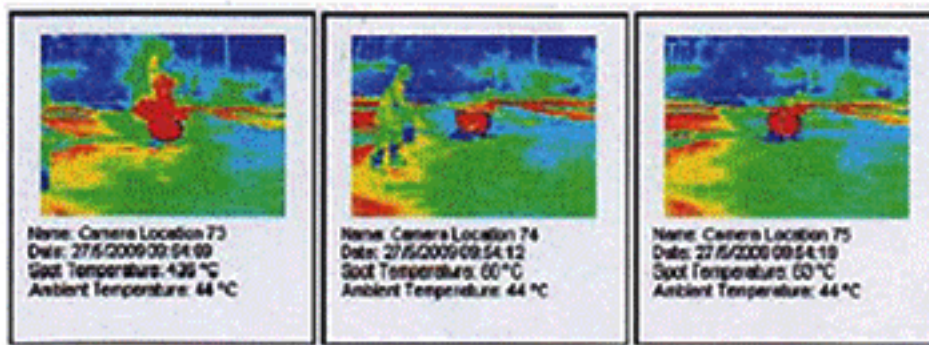
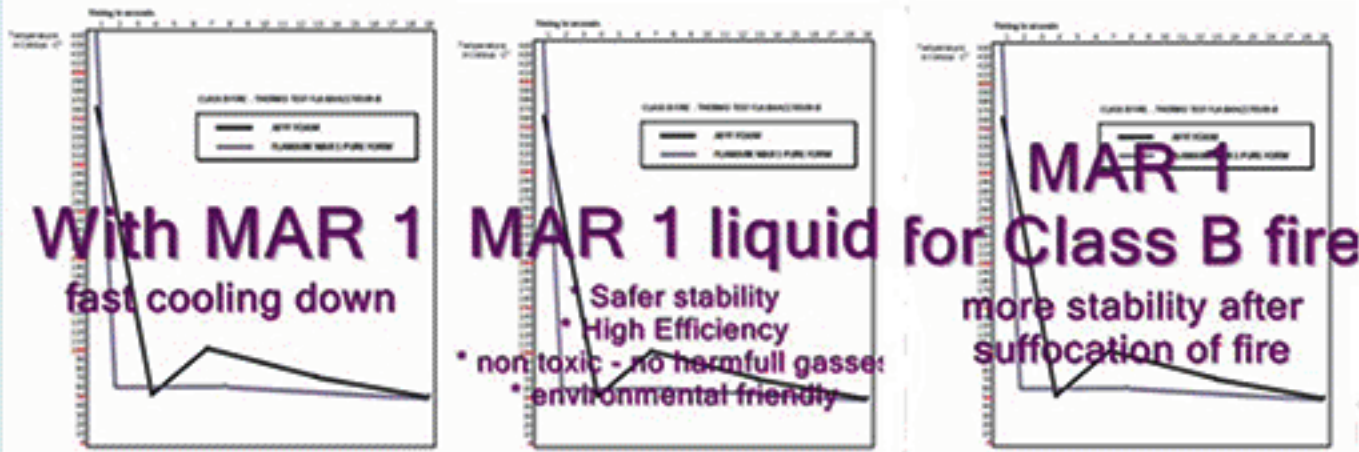
features and benefits

- **mar solution is specially formulated as**
 - ⇒ clean, non- toxic, non- corrosive product
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 - ⇒ water based, made with harmless plant based and food-grade materials
 - ⇒ have zero ozone depletion potential (ODP) – no dangerous for ozone layer
 - ⇒ do not contribute in any way to global warming (GWP)- zero global warming
 - ⇒ and has no concern about its atmospheric life
 - ⇒ extinguish fire safe, fast, with less water, less damage to property
 - ⇒ without risk to firefighters
 - ⇒ an amazing unique features - when diluted in water it gives a solution with extremelly increased efficiency which extinguishes large fires indoors/outdoors
- **due to its excellent cooling, negative catalyst, penetrating actions a glass-like coating – capsuling and spread prevention ability, and heavy smoke eliminating effects**
 - ⇒ effective for all class of fires
 - ⇒ extinguish any fire safe, fast (3-5 outdoor, indoor 25-30 times faster than water)
 - ⇒ with less water
 - ⇒ less damage to property
 - ⇒ no messy clean up
 - ⇒ without risk to firefighters
 - ⇒ specially highly effective for B class fires
 - ⇒ minimizes spread of fire
 - ⇒ ensures a quick fire suppression
 - ⇒ no difficulties of securing visibility
 - ⇒ it is non-slip
 - ⇒ it has wide application range
 - ⇒ can be applied with all existing equipment
 - ⇒ shelf life at least 5 years when stored in closed containers, cans, loop systems or water pressurized units
- **extinguishing performance**
 - ⇒ quick and strong cooling effect (by water evaporation)
 - ⇒ suffocation, isolation (removes oxygen, forms a glass-like coating)
 - ⇒ heavy smoke eliminating effect (secure visibility)
 - ⇒ penetration effect (easily penetrate due to low surface tension)
 - ⇒ negative catalytic effect (use water as catalyst)
 - ⇒ evaporation control
 - ⇒ prevention, fire retardant effect (prevent reignition)



- storage temperature range -15°C to +50°C

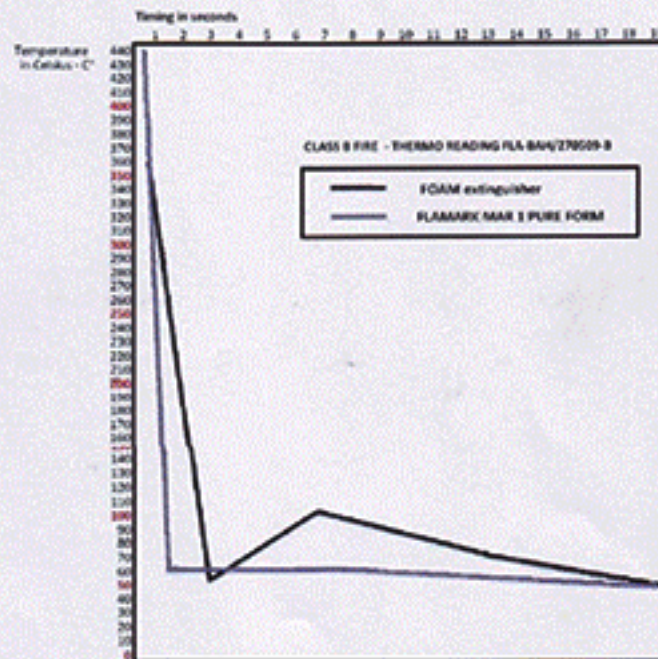
- designed for the following classes of fire



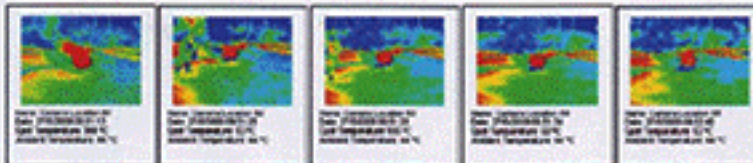
Demonstration comparison report FLA/BAH/270509-B

2. Temperature Reading Demo B1 and Demo B2

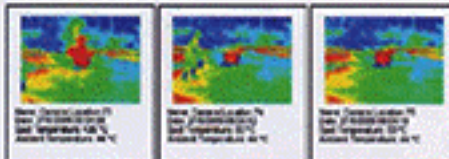
Pictures taken by Operations department Civil defence with Laser thermo reader.



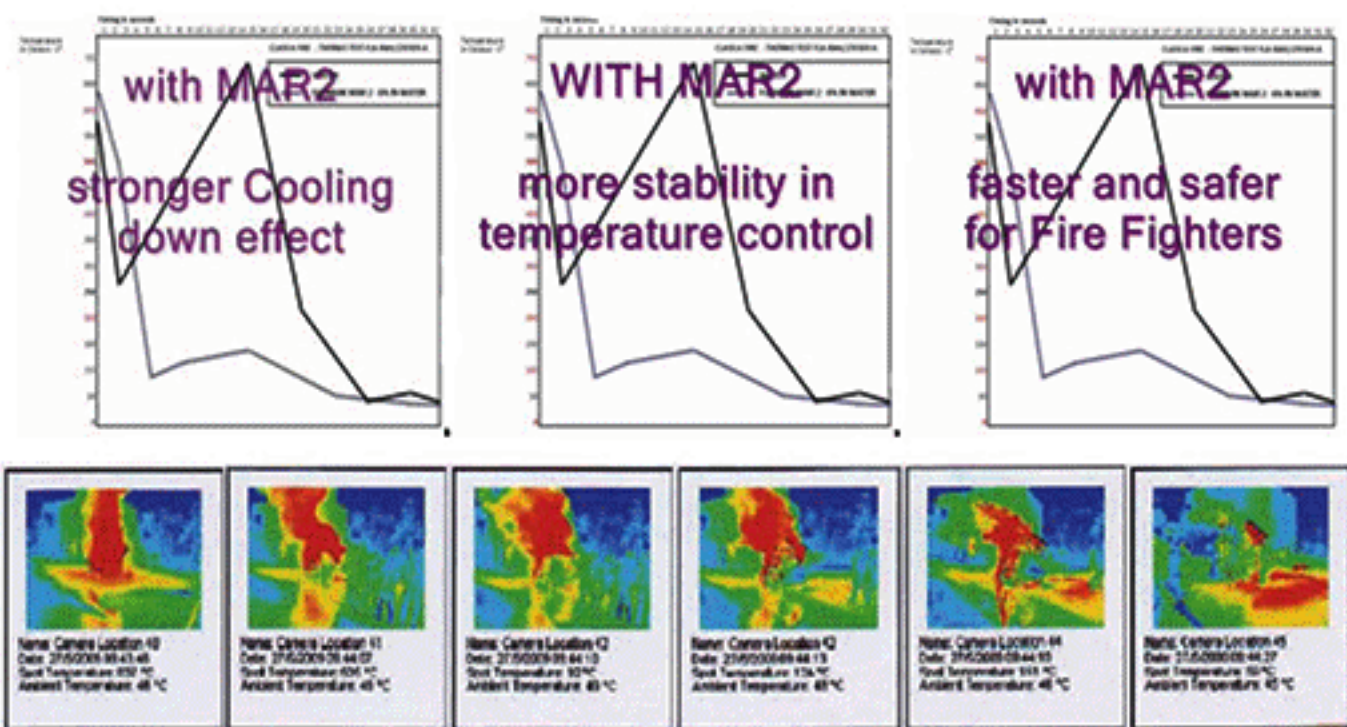
Pictures Demo B1



Pictures Demo B2



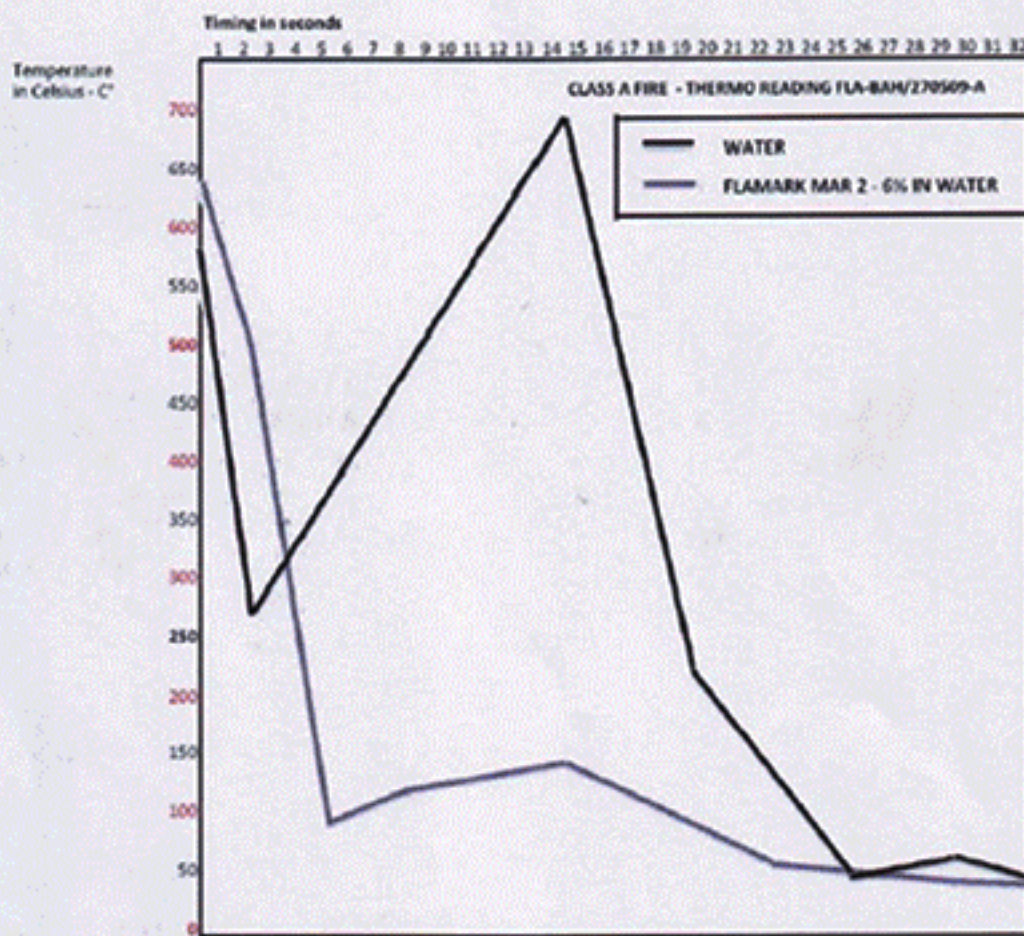
Tires Fire



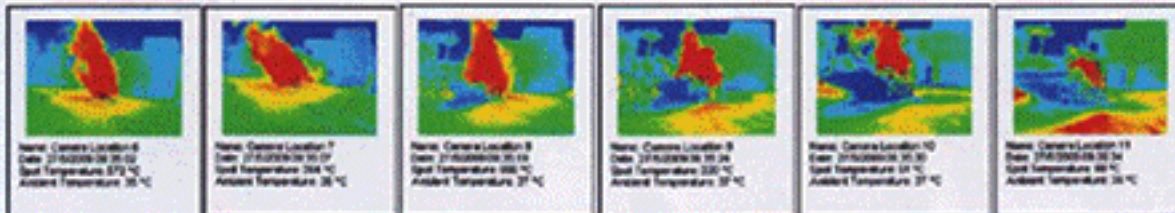
Demonstration comparison report FLA/BAH/270509-A

2. Temperature Reading Demo A1 and Demo A2

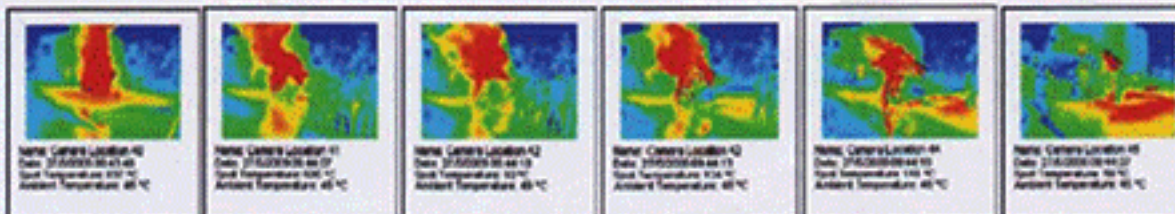
Pictures taken by Operations department Civil defence with Laser thermo reader.



Pictures Demo A1



Pictures Demo A2



application range

- can be used in pure form or additive 6 % (mixed rate)
- very appropriate for the existing fire fighting equipment and systems, particularly for professional fire departments: monitors and portable fire extinguishing units, suck-bags, watercanons, waterguns, fire fighting planes, helicopters, trucks, remote fire fighting vehicles...and all equipment under high and low pressure,
- in a pressurised cylinder have excellent penetrative and spreading ability

