STRIKE WHEN THE IRON IS HOT

IMAGIX Studio
Imagix Studio & Projects Private Limited

CEASE FIRE

Metal Fire Extinguishers

The biggest mistake most people make when it comes to a metal fire is underestimating it. Miscalculating the speed at which it can spread and the ease with which it can engulf everything in its path. this lack of knowledge destroys thousand of lives and property worth millions, every year. Because the fact is, you can’t defeat what you don’ t understand.

UNDERSTANDING THE ENEMY

Here's what makes metal (Class D) fires so dangerous. Magnesium, Potassium, Sodium, Titanium, Uranium and Calcium are among the most flammable metallic elements found on earth. In their dust or molten states, these metals ignite very easily. Once ablaze, these elements can reach temperatures of up to 5000°C within seconds. And industries that use these metals – aircraft, paint, explosive and steel manufacturing – are already at a high risk of fire. A summary of some of the most reactive metals and the dangers they pose:

Metal	Danger	Reaction
Magnesium	Highly flammable in powder form	Reduces water to highly flammable Hydrogen gas
Sodium	Low melting point, making it extremely reactive	Violent reaction with air, causing Sodium to melt and spread fire
Potassium	Ignites at room temperature in powder form	Reacts violently with water, producing Hydrogen gas and Potassium Hydroxide (KOH). The resulting exothermic reaction can ignite the Hydrogen
Caesium	Highly explosive and reactive metal	Explodes on contact with water. Can also react with solid water at temperatures as low as -116°C
Lithium	Reacts with Nitrogen gas in normal conditions Highly flammable in powder form	Ignites and burns in air when exposed to water or water vapours

THE BIGGEST DANGER

Using the wrong extinguishing agent on a Class D fire may cause more damage than the fire itself. Other than the extreme threat that all metal fires pose, one common characteristic is that all of them react violently, often exploding, when they come in contact with water.
So what is the solution to a raging metal fire?

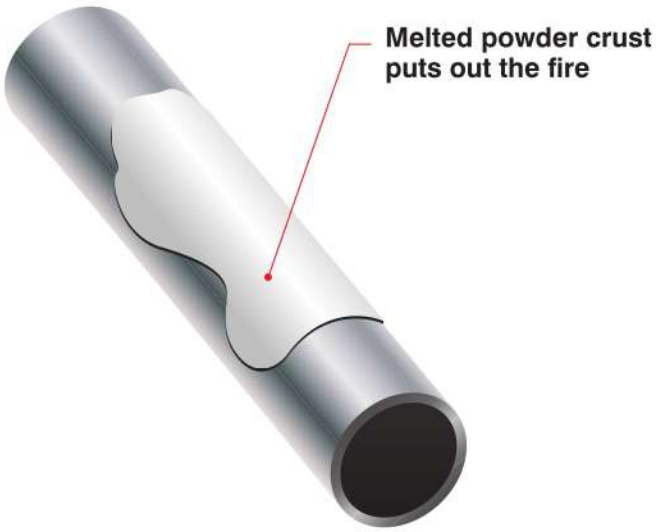
The National Fire Prevention Association (NFPA), a panel of experts on fire safety and prevention, recommends Dry Powder extinguishing agents.These extinguishing agents have a blanket-effect on the fire and smother the flames by absorbing the heat.

THE CEASEFIRE SOLUTION

Ceasefire's answer to these infernos is the Ceasefire Speciality Powder for Metals: TEC (SPM-TEC) and the Ceasefire Speciality Powder for Metals: Pyro (SPM-PYRO). These extinguishers are so powerful, they stop metal fires, dead in their tracks. Within minutes.

Metal fires can burn anywhere between 600° and 5000°C. This temperature causes the molecules in a powder extinguishing agent to melt, and then fuse. This process forms a hard crust on the surface of the metal, cutting off oxygen supply to the fire.

With this immediate decrease in temperature and lack of oxygen, the fire is extinguished in seconds.
The Ceasefire Speciality Powder for Metals stops the chemical chain reactions and kills fire instantly.



METAL FIRE EXTINGUISHER

METALS: TEC (SPM-TEC)

METALS: PYRO (SPM-PYRO)

FIGHTS CLASS	STANDARDS	CERTIFICATIONS	CERTIFYING BODY
D	PED	CE 1128	EURO CERT

CEASEFIRE SPECIALITY POWDER
FOR METALS: TEC (SPM-TEC)

Ceasefire Speciality Powder for Metals: TEC (SPM-TEC) uses a specially formulated powder agent based on a mixture of 3 metal chlorides – Sodium, Potassium and Barium. It is then chemically treated to make it easy to spray through a nozzle, and make it water-repellent. Ideal for fighting lighter metal fires in the range of 500°-2000°C, Ceasefire SPM- TEC melts at 550°C and the particles fuse to form a crust at 600-650°C. Conforming to world class manufacturing quality standards, Ceasefire SPM-TEC offers a reliable and revolutionary solution to fighting metal fires. It can also be used to effectively combat small oil fires.

HOW IT WORKS
Ideal combatant against Aluminium, Zinc, Sodium, Magnesium, Francium, Lithium, Potassium, Rubidium and Caesium.
Manufactured by Ceasefire according to the highest international quality and safety standards

FEATURES:

	Deep drawn & MIG welded
	Controllable discharge mechanism
	Stored pressure type, hence always ready for action
6 YEARS WARRANTY	Six year Warranty

Available sizes: 4kg, 6kg, 9kg

CEASEFIRE SPECIALITY POWDER FOR METALS: PYRO (SPM-PYRO)

The temperatures that some metal fires can reach make them hard to combat with Ceasefire SPM-TEC. This is where Ceasefire Speciality Powder for Metals - Pyro (SPM-PYRO) comes in. Metals such as Plutonium, Titanium, Zirconium can react and burn at temperatures in excess of 5000°C. Made from a formulation of Chloride and Phosphate-based powder, Ceasefire SPM-PYRO is designed specifically to combat metal Fires at higher Temperatures.

Ceasefire SPM-PYRO melts and fuses at ~1200°C, making it extremely effective against Alkali metal fires, as well as metal fires such as Plutonium, Titanium, Lead, Copper, Tungsten, Cobalt and Manganese.

FEATURES

Ideal combatant against fires involving heavy metals, alkali metals and their alloys
Manufactured by Ceasefire according to the highest international quality and safety standards

FEATURES:

	Deep drawn & MIG welded
	Controllable discharge mechanism
	Stored pressure type, hence always ready for action
6 YEAR WARRANTY	Six year Warranty

Available sizes: 4kg, 6kg, 9kg

RECOMMENDED USAGE

Ceasefire SPM-TEC and Ceasefire SPM-PYRO are ideal solutions to combat fires involving metals in a variety of locations and applications:

- **Shipping**
- **Batteries**
- **Ceramics**
- **Glass**
- **Petrochemicals**
- **Research Laboratories**
- **Atomic Energy Complexes**
- **Ports**
- **Metallurgical and Alloy-manufacturing Industries**
- **Pharmaceuticals**
- **Coolants**
- **Fertilisers**
- **Soaps**
- **Automobile and Engine-manufacturing**
- **Aerospace**
- **Fireworks and Explosives**

TECHNICAL SPECIFICATIONS:

NOMENCLATURE FOR PORTABLE FIRE EXTINGUISHER	METAL FIRE EXT SPM TEC-4KG MS SP RED	METAL FIRE EXT SPM TEC-6KG MS SP RED	METAL FIRE EXT SPM TEC-9KG MS SP RED	METAL FIRE EXT SPM PYRO-4KG MS SP RED	METAL FIRE EXT SPM PYRO-6KG MS SP RED	METAL FIRE EXT SPM PYRO-9KG MS SP RED
PRODUCT CODE	CF-000043	CF-000044	CF-000045	CF-000040	CF-000041	CF-000042
PRESSURE TYPE	STORED PRESSURE	STORED PRESSURE	STORED PRESSURE	STORED PRESSURE	STORED PRESSURE	STORED PRESSURE
EXTINGUISHING AGENT	SPM TEC	SPM TEC	SPM TEC	SPM PYRO	SPM PYRO	SPM PYRO
APPLICABLE ON FIRES	D	D	D	D	D	D
IS 15683 RATINGS						
IS 15683 RATINGS						
IS 15683 RATINGS						
EN 3 RATINGS						
EN 3 RATINGS						
EN 3 RATINGS						
CERTIFICATION STANDARD	PED	PED	PED	PED	PED	PED
CERTIFICATION BODY	EUROCERT	EUROCERT	EUROCERT	EUROCERT	EUROCERT	EUROCERT
GROSS WEIGHT	7.44 TO 7.60 KG	9.86 TO 10.09 KG	15.27 TO 15.63 KG	7.44 TO 7.60 KG	9.86 TO 10.09 KG	15.27 TO 15.63 KG
NET CONTENT	3.92 TO 4.08 KG	5.88 TO 6.12 KG	8.82 TO 9.18 KG	3.92 TO 4.08 KG	5.88 TO 6.12 KG	8.82 TO 9.18 KG
APPROX. HEIGHT OF FIRE EXT.	440 MM	485 MM	615 MM	440 MM	485 MM	615 MM
DISCHARGE MECHANISM	SQUEEZE GRIP	SQUEEZE GRIP	SQUEEZE GRIP	SQUEEZE GRIP	SQUEEZE GRIP	SQUEEZE GRIP
CAN CONSTRUCTION	DEEP DRAWN AND MIG WELDED	DEEP DRAWN AND MIG WELDED	DEEP DRAWN AND MIG WELDED	DEEP DRAWN AND MIG WELDED	DEEP DRAWN AND MIG WELDED	DEEP DRAWN AND MIG WELDED
VALVE / CAP CONSTRUCTION	FORGING AND MACHINING	FORGING AND MACHINING	FORGING AND MACHINING	FORGING AND MACHINING	FORGING AND MACHINING	FORGING AND MACHINING
INTERNAL COATING	EPOXY POWDER COATING	EPOXY POWDER COATING	EPOXY POWDER COATING	EPOXY POWDER COATING	EPOXY POWDER COATING	EPOXY POWDER COATING
EXTERNAL COATING	EPOXY POLYESTER POWDER	EPOXY POLYESTER POWDER	EPOXY POLYESTER POWDER	EPOXY POLYESTER POWDER	EPOXY POLYESTER POWDER	EPOXY POLYESTER POWDER
HELIUM LEAK DETECTION TESTING	YES	YES	YES	YES	YES	YES
WARRANTY IN YEARS						
APPROX. GUN WEIGHT IN KG	N/A	N/A	N/A	N/A	N/A	N/A
WORKING PRESSURE	15BAR	15BAR	15BAR	15BAR	15BAR	15BAR
DIA. OF SHELL (OD)	140.0 MM	160.0 MM	175.0 MM	140.0 MM	160.0 MM	175.0 MM
OPERATING TEMPERATURE	-30° C to 55° C	-30° C to 55° C	-30° C to 55° C	-30° C to 55° C	-30° C to 55° C	-30° C to 55° C
HYDROSTATIC TEST PRESSURE	35BAR	35BAR	35BAR	35BAR	35BAR	35BAR
CYLINDER MATERIAL SPEC.	STEEL CR2(DC01)	STEEL CR2(DC01)	STEEL CR2(DC01)	STEEL CR2(DC01)	STEEL CR2(DC01)	STEEL CR2(DC01)
BODY THICKNESS	1.6 MM	1.6 MM	2.0 MM	1.6 MM	1.6 MM	2.0 MM

* Please check specification before ordering. Specification can change without notice due to continuous R & D.

APPLICATION AREAS:

Shipping

Atomic Energy Complexes

Fertilisers

Ports

Batteries

Aerospace

Automobile and Engine manufacturing

Petrochemicals

Pharmaceuticals

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