

# IMFire



"Fire Technologies"  
[www.aerosolsystem.net](http://www.aerosolsystem.net)

## Aerosol Systems













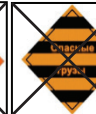


# Why Aerosol ?

IMFire aerosol systems doesn't need care. More efficient about fire intervention. Because of the reacting directly the flames it takes fast and correct results. More cheaper than other fire extinguishing systems. Have any harm for human health and furnitures. Doesn't drop any dust or stain. Guaranteed for 15 years.

## Advantages of Aerosol Extinguishing






They can work with fire detection (signalization) and can be turned on manual or room temperature. Before the spreading the fire it reacts with the flames . Obviate the afterward fires. It can be use 15 years. Doesn't require service or care, you can easily and safely carry and install. Doesn't contain pressure. Include trigger it own for activation. Can work without electricity or power supply. You can make saving from time and money because of easily carry. Don't contain any harm for human helath. **Eco and ozone friendly.** It reacting directly flames because of this doesn't reduce the oxygen level.






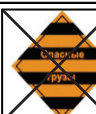


TECHNICAL INFORMATION	
Model	<b>IMF-5</b>
Fire classes	  
Activation mechanism	electric (12V / 24V, D/C)
Activation current	0,4A / 1,2A
Self-activation temperature	> 170°C
Weight (kg)	0,2
Weight extinguishing agent (kg)	
Maximum protected volume is not more than (m3)	2,4
Confidence interval	0,98
Dimensions (mm)	165 x 165 x 245
Housing	coated galvanized steel (stainless steel**)
Discharge time (sec)	< 60
Outflow temperature 57°C (mm)	1200
Outflow temperature 200°C (mm)	700
PROPERTIES	
Terms of Use	Humidity (RH), % 98 - upper value at 35°C, average annual value of 75% at 27°C. Operating temperature from -50°C to 50°C
Climatic performance	"U" - for all macroclimatic regions on land, except for the climatic region with the Antarctic cold
Gas phase (nitrogen, carbon dioxide, water vapor)	- 88-90% maximum
Permissible exposure time. LC50 = 84g/m3	15 min
Life time	Does not require replacement for the entire service life of 10-15 years
Does not emit cyanides in any form, ammonia and nitrogen oxides, Ozone safe, Safe for electronic and power equipment	   
Has no explosive properties, Does not apply to dangerous goods, Not a pressure vessel, Does not cause corrosion	   
APPLICATIONS	
Room	Central control room, Engin room, Pump rooms
Storage	Storage, Archive, Data center, Storage of hazardous good
Industrial	Production rooms
Warehouses	Warehouses for solid and liquid combustibile materials
Energy	Energy and cable facilities up to 35 kV
Power plants	Power plants (diesel generator and engine rooms)
Transport	Shiping, Containers, Aircraft



### TECHNICAL INFORMATION












Model	<b>IMF-10</b>
Fire classes	  
Activation mechanism	electric (12V / 24V, D/C)
Activation current	0,4A / 1,2A
Self-activation temperature	> 170°C
Weight (kg)	0,6
Weight extinguishing agent (kg)	
Maximum protected volume is not more than (m3)	7,2
Confidence interval	0,98
Dimensions (mm)	165 x 165 x 325
Housing	coated galvanized steel (stainless steel**)
Discharge time (sec)	< 60
Outflow temperature 57°C (mm)	1200
Outflow temperature 200°C (mm)	700

### PROPERTIES




Terms of Use	Humidity (RH), % 98 - upper value at 35°C, average annual value of 75% at 27°C. Operating temperature from -50°C to 50°C
Climatic performance	"U" - for all macroclimatic regions on land, except for the climatic region with the Antarctic cold
Gas phase (nitrogen, carbon dioxide, water vapor)	- 88-90% maximum
Permissible exposure time. LC50 = 84g/m3	15 min
Life time	Does not require replacement for the entire service life of 10-15 years
Does not emit cyanides in any form, ammonia and nitrogen oxides, Ozone safe, Safe for electronic and power equipment	   
Has no explosive properties, Does not apply to dangerous goods, Not a pressure vessel, Does not cause corrosion	   

### APPLICATIONS









Room	Central control room, Engin room, Pump rooms
Storage	Storage, Archive, Data center, Storage of hazardous good
Industrial	Production rooms
Warehouses	Warehouses for solid and liquid combustibile materials
Energy	Energy and cable facilities up to 35 kV
Power plants	Power plants (diesel generator and engine rooms)
Transport	Shiping, Containers, Aircraft

TECHNICAL INFORMATION	
Model	<b>IMF-20</b>
Fire classes	  
Activation mechanism	electric (12V / 24V, D/C)
Activation current	0,4A / 1,2A
Self-activation temperature	> 170°C
Weight (kg)	2,7
Weight extinguishing agent (kg)	
Maximum protected volume is not more than (m3)	31
Confidence interval	0,98
Dimensions (mm)	245 x 245 x 426
Housing	coated galvanized steel (stainless steel**)
Discharge time (sec)	< 60
Outflow temperature 57°C (mm)	1200
Outflow temperature 200°C (mm)	700
PROPERTIES	
Terms of Use	Humidity (RH), % 98 - upper value at 35°C, average annual value of 75% at 27°C. Operating temperature from -50°C to 50°C
Climatic performance	"U" - for all macroclimatic regions on land, except for the climatic region with the Antarctic cold
Gas phase (nitrogen, carbon dioxide, water vapor)	- 88-90% maximum
Permissible exposure time. LC50 = 84g/m3	15 min
Life time	Does not require replacement for the entire service life of 10-15 years
Does not emit cyanides in any form, ammonia and nitrogen oxides, Ozone safe, Safe for electronic and power equipment	   
Has no explosive properties, Does not apply to dangerous goods, Not a pressure vessel, Does not cause corrosion	   
APPLICATIONS	
Room	Central control room, Engine room, Pump rooms
Storage	Storage, Archive, Data center, Storage of hazardous goods
Industrial	Production rooms
Warehouses	Warehouses for solid and liquid combustible materials
Energy	Energy and cable facilities up to 35 kV
Power plants	Power plants (diesel generator and engine rooms)
Transport	Shipping, Containers, Aircraft

**TECHNICAL INFORMATION**












Model	<b>IMF-40</b>
Fire classes	  
Activation mechanism	electric (12V / 24V, D/C)
Activation current	0,4A / 1,2A
Self-activation temperature	> 170°C
Weight (kg)	4,1
Weight extinguishing agent (kg)	
Maximum protected volume is not more than (m3)	48
Confidence interval	0,98
Dimensions (mm)	264 x 264 x 502
Housing	coated galvanized steel (stainless steel**)
Discharge time (sec)	< 60
Outflow temperature 57°C (mm)	1200
Outflow temperature 200°C (mm)	700

**PROPERTIES**

Terms of Use	Humidity (RH), % 98 - upper value at 35°C, average annual value of 75% at 27°C. Operating temperature from -50°C to 50°C
Climatic performance	"U" - for all macroclimatic regions on land, except for the climatic region with the Antarctic cold
Gas phase (nitrogen, carbon dioxide, water vapor)	- 88-90% maximum
Permissible exposure time. LC50 = 84g/m3	15 min
Life time	Does not require replacement for the entire service life of 10-15 years
Does not emit cyanides in any form, ammonia and nitrogen oxides, Ozone safe, Safe for electronic and power equipment	   
Has no explosive properties, Does not apply to dangerous goods, Not a pressure vessel, Does not cause corrosion	   

**APPLICATIONS**

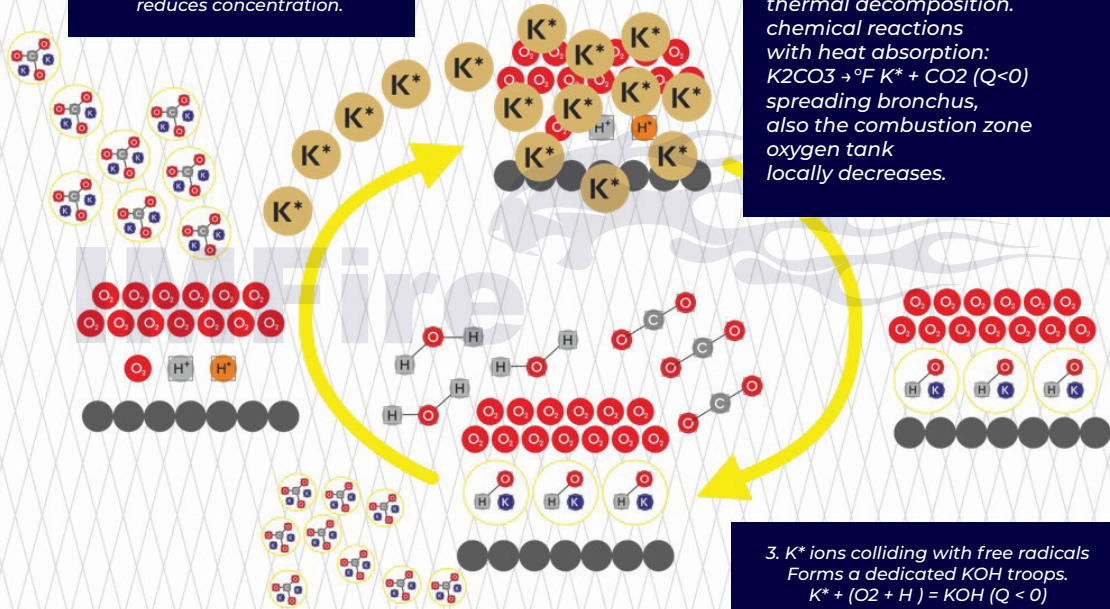
Room	Central control room, Engine room, Pump rooms
Storage	Storage, Archive, Data center, Storage of hazardous goods
Industrial	Production rooms
Warehouses	Warehouses for solid and liquid combustible materials
Energy	Energy and cable facilities up to 35 kV
Power plants	Power plants (diesel generator and engine rooms)
Transport	Shipping, Containers, Aircraft

TECHNICAL INFORMATION	
Model	<b>IMF-60</b>
Fire classes	  
Activation mechanism	electric (12V / 24V, D/C)
Activation current	0,4A / 1,2A
Self-activation temperature	> 170°C
Weight (kg)	6,9
Weight extinguishing agent (kg)	
Maximum protected volume is not more than (m3)	81
Confidence interval	0,98
Dimensions (mm)	
Housing	coated galvanized steel (stainless steel**)
Discharge time (sec)	< 60
Outflow temperature 57°C (mm)	1200
Outflow temperature 200°C (mm)	700
PROPERTIES	
Terms of Use	Humidity (RH), % 98 - upper value at 35°C, average annual value of 75% at 27°C. Operating temperature from -50°C to 50°C
Climatic performance	"U" - for all macroclimatic regions on land, except for the climatic region with the Antarctic cold
Gas phase (nitrogen, carbon dioxide, water vapor)	- 88-90% maximum
Permissible exposure time. LC50 = 84g/m3	15 min
Life time	Does not require replacement for the entire service life of 10-15 years
Does not emit cyanides in any form, ammonia and nitrogen oxides, Ozone safe, Safe for electronic and power equipment	   
Has no explosive properties, Does not apply to dangerous goods, Not a pressure vessel, Does not cause corrosion	   
APPLICATIONS	
Room	Central control room, Engine room, Pump rooms
Storage	Storage, Archive, Data center, Storage of hazardous goods
Industrial	Production rooms
Warehouses	Warehouses for solid and liquid combustible materials
Energy	Energy and cable facilities up to 35 kV
Power plants	Power plants (diesel generator and engine rooms)
Transport	Shipping, Containers, Aircraft

# IMFire Aerosol Fire Extinguishing Mechanism

1. Carbon dioxide - fire extinguisher up to 90% of aerosol mass oxygen in the combustion zone reduces concentration.

2. Solid phase  $K_2CO_3$  is the main of  $CO_3$  the junction undergoes thermal decomposition. chemical reactions with heat absorption:  
 $K_2CO_3 \xrightarrow{Q} K^* + CO_2$  ( $Q < 0$ )  
 spreading bronchus, also the combustion zone oxygen tank locally decreases.



4. In the presence of  $CO_2$  KOH forms  $K_2CO_3$   
 $KOH + CO_2 = K_2CO_3$

3.  $K^*$  ions colliding with free radicals Forms a dedicated KOH troops.  
 $K^* + (O_2 + H) = KOH$  ( $Q < 0$ )  
 $K^* + OH = KOH$  ( $Q < 0$ )



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