## New Bharat Fire Protection System Pvt. Ltd.

Address: C-210, BTM Estate, Near SBI Bank, LBS Road, Bhandup-West, Mumbai-400078.

<u>Tel No.022-25941070/25940160</u>

Email: ho@newbharatfire.com

# Brand "SAFETY FIRST" PRICE LIST

## "SAFETY FIRST" Brand ISI Mark Portable Fire Extinguisher (Chemical/Powder/Clean Agent Gas) (WEF 1-5-2019)

	Gas) (WEF 1-5-2019)					
	SR NO.	IS NO.	MAKE	<u>TYPE</u>	<u>FIRE</u> <u>RATING</u>	NET PRICE
	1	15683	Safety First	ABC Store Pressure 1Kg.	1A- 8B	470
	2	15683	Safety First	ABC Store Pressure 2Kg.	1A- 8B	500
	3	15683	Safety First	ABC Store Pressure 4Kg.	2A-21B	750
L	4	15683	Safety First	ABC Store Pressure 6Kg.	3A-34B	850
L	5	15683	Safety First	ABC Store Pressure 9Kg.	3A-34B	1200
L	6	15683	Safety First	ABC Cartridge 4Kg. 🔄	2A-21B	1550
L	7	15683	Safety First	ABC Cartridge 6Kg. 🖪	3A-34B	1600
L	8	15683	Safety First	ABC Cartridge 9Kg. 🖪	3A-34B	1650
L	9	15683	Safety First	DCP Cartridge 4Kg. 🔄	2A-21B	1500
	10	15683	Safety First	DCP Cartridge 6Kg. 🔄	3A-34B	1600
L	11	15683	Safety First	DCP Cartridge 9Kg. 🔄	3A-34B	1650
L	12	15683	Safety First	Co2 2Kg.	13 B	2400
	13	15683	Safety First	Co2 3Kg. 🖪	2A-21B	2900
L	14	15683	Safety First	Co2 4.5Kg. 🗐	2A-21B	3250
	15	16018	Safety First	Co2 6.5Kg. 🗐	55B	4300
	16	16018	Safety First	Co2 9Kg. 🖪	55B	5200
I	17	16018	Safety First	Co2 22.5Kg. 🗐	89B	9500
	18	15683	Safety First	Foam Store Pressure 9Ltr.	3A-34B	1100
	19	15683	Safety First	Foam Cartridge 9Ltr. 🔄	4A-55B	1550
	20	16018	Safety First	Foam Inside Cartridge 45Ltr.	20A-233B	5500
	21	16018	Safety First	Foam Inside Cartridge 20Ltr.	20A-233B	4500
	22	16018	Safety First	Foam 60Ltr. With Outside CO <sub>2</sub>	20A-233B	9500
	23	16018	Safety First	Foam 125Ltr. With Outside CO <sub>2</sub>	20A-233B	21200
	24	15683	Safety First	Water Store Pressure 9Ltr.	3A	1050
	25	15683	Safety First	Water Cartridge 9Ltr.	3A	1550
	26	16018	Safety First	Water Cartridge 45Ltr.	20A	5500
	27	-	Safety First	Clean Agent 1Kg.	-	2000
	28	15683	Safety First	Clean Agent 2Kg. 🔄	13B	4300
	29	15683	Safety First	Clean Agent 4Kg.	1A-21B	9500
	30	15683	Safety First	Clean Agent 6Kg.	1A-34B	11700
l	31	16018	Safety First	ABC Inside Cartridge 25Kg.	20A-233B	6250
	32	16018	Safety First	ABC Outside Co2 25Kg.	20A-233B	8500
	33	16018	Safety First	ABC Outside Co2 50Kg.	20A-233B	11500
	34	16018	Safety First	ABC Outside Co2 75Kg.	20A-233B	12500

						_
	35	-	Safety First	ABC Modular 2Kg.	-	850
	36	-	Safety First	ABC Modular 5Kg.	-	1150
	37	-	Safety First	ABC Modular 10Kg.	-	1500
	38	-	Safety First	Clean Agent Modular 2Kg.	-	5000
	39	-	Safety First	Clean Agent Modular 5Kg.	-	10000
	40	-	Safety First	Clean Agent Modular 10Kg.	-	18000
	41	14609	Safety First	ABC Powder 🖫	-	38 Per Kg
	42		Safety First	ABC Powder Non ISI	-	15 Per Kg
	43	4308	Safety First	DCP Powder 🔄	-	14 Per Kg
	44	4989	Safety First	AFFF Liquid 3% 🔄	-	48 Per Ltr.
	45	4989	Safety First	AFFF Liquid 6% 🔄	-	46 Per Ltr.
	46	4989	Safety First	AFFF Liquid 540ML Can 🔄	-	48 Per Can
	47	4989	Safety First	AFFF Liquid 3Ltr. Can	-	250 Per Can
	48	4947	Safety First	Co2 Gas Cartridge 🔄 IS 15683-60Grm		135
	49	4947	Safety First	Co2 Gas Cartridge 🔄 IS 15683 -120Gr	o2 Gas Cartridge 🖾 IS 15683 -120Grm	
	50	4947	Safety First	Co2 Gas Cartridge 🖪 IS 15683 -180Gr	n	185
	51	4947	Safety First	Co2 Gas Cartridge 🖪 IS 15683 -200Gr	n	195
	52	4947	Safety First	Co2 Gas Cartridge 🖪 IS 15683 -300Gr	n	350
	53	636	Safety First	RRL Hose Pipe 63mm		85 Per Mtr.
	54		Safety First	SS Body K Type 2 Ltr		2200
	55		Safety First	SS Body K Type 6 Ltr		3900
	56		Safety First	SS Body K Type 9 Ltr		5200
	57		Safety First	Water Mist Fire Extinguisher 6 Ltr		3500
	58		Safety First	Water Mist Fire Extinguisher 9 Ltr		4500
-						

### **Terms & Condition:**

1. FOR: Ex Wada Factory

2. GST: 18% Extra

3. Transport Charge: Will be extra

4. Payment: 100% Advance only RTGS, NEFT & Cheque through Bank.

5. Document: Certificate will be provide with supply material

6. Delivery: Within a 5 to 6 working days after receiving payment.

**Note**: 1) If you require special transport charge extra at actual Factory to Transport, our factory nearby transport TCI Freight, V-Trans and Associate Road & Avinash Cargo there is no charge.

2) We are not responsible for damaged goods, please claim damages from the transporter.

Yours faithfully

NEW BHARAT FIRE PROTECTION SYSTEM PVT. LTD.

Certificate Number UL-US-2122926-0
Report Reference EX28514-20210430

**Date** 3-May-2021

Issued to: New Bharat Fire Protection System Pvt Ltd

C-210, Btm Estate, LBS Road

Near SBI, Bhandup (W) Mumbai, Maharashtra

India 400078

This is to certify that representative samples of

GBIX2 - Dry Chemicals for Fire Extinguishers - Component

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete

in certain constructional features or restricted in

performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL 299, 11th Ed., Issue Date: 2012-04-13, Revision Date:

2018-06-08, UL 711, 8th Ed., Issue Date: 2018-08-06

Additional Information: See the UL Online Certifications Directory at

https://ig.ulprospector.com for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.





Certificate Number UL-US-2122926-0

Report Reference EX28514-20210430

Date 3-May-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description	
NBF Safety First-MAP	Ammonium phosphate	
NBF Safety First-PBC	Potassium bicarbonate	





Certificate Number UL-US-2123030-0
Report Reference EX28515-20210430

Date 4-May-2021

Issued to: New Bharat Fire Protection System Pvt Ltd

C-210, Btm Estate, LBS Road

Near SBI, Bhandup (W) Mumbai, Maharashtra

India 400078

This is to certify that representative samples of

GBNU - Dry-chemical Extinguishing Agents for Special

Application

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 299C, 3rd Ed., Issue Date: 2016-05-06

Additional Information: See the UL Online Certifications Directory at

https://ig.ulprospector.com for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.





Certificate Number UL-US-2123030-0
Report Reference EX28515-20210430

Date 4-May-2021

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
NBF Safety First-PBC Urea Base, dry chemical	Extinguishing Agents, Dry Chemical (Spec.
Classified for physical properties and special	App.)
applications on Class B flammable liquids having a	こしんこしんこじんこじんこじんこ
minimum application density required to be applied to	
the surface of Class B flammable liquids of 0.0438 lb/ft2	
(0.7027 kg/m2).	







FOR "A", "B" & "C" CLASS OF FIRES



FEATURES 8	PERFORMANCE DATA	A OF	AUTOMATIC MOD	ULAR FIRI	E EXTINGUISHER

10	15
7 to 15	7 to 15
Nitrogen	Ntrogen
7 - 8	8 - 10
1,75 - 2.25 m	2-3 m
15 - 20	18 - 23
	7 to 15 Nitrogen 7 · 8 1.75 · 2.25 m



Apparent density	As per IS: 4308:2003
Moisture content	Less than 0,25%
Particle size	As per 15: 4308 : 2003
Corrosion & abrasion effect	Non corrosive or abrasive
Temperature stability range	-60° C to + 55° C
Appearance	White
Packing	5/10 / 50 Kg Hermetically sealed bags
Storage	
Effective Daried	3 Votes

## SAFETY FIRST DRY CHEMICAL POWDER MONO AMMONIUM PHOSPHATE BASED

WESTER POSITIONISM CONSIDERED S 600 M.		
Apparent density	As per IS: 14609	
Moisture content.	As per IS: 14609	
Particle size	As par IS: 14609	
Corresion & abrasion effect	Non corrosive or obrasive	
Temperature stability range	-80°C to +55°C	
Penetration	As per IS: 14609	
Agpearance	Yellow	
Packing	5/25 kg Hermetically sealed bags	



### AFFF TYPE 3% & TYPE 6%

#### CHEMICAL PHYSICAL PROPERTIES & PERFORMANCE REQUIRE

Property	Value
Appearance	Clear trasport Liquid
Ph	6.5 to 8.5
Specific gravity	1.00 to 1.12
Viscosity	Less than 10 cst
Pour Point	0°C
Studge content	Less than 0.25%
Expansion ratio	Conforms to relevant standard
25% Drainage time	Conforms to relevant standard

#### K TYPE

#### **WATER MIST**



TECHNICAL SPECIFICATION			
Capacity	2 Lin	6 Lira	9 Lin.
Min. Jet Laugh (in mis).	2 to 4 Mm	2 in 4 Min	2 to 4 Mm.
Discharge Time Min.	8 Seconda	45 to 55 Seconds	75 to 80 Seconds
Charge Pressupe	15 Kel conf	15 Ke( ) cm <sup>2</sup>	15 Kg/cm²
Test Pressure	35 Kgf / cm²	35 Ket / cm	35 Kgl   cm²
Extinguisher Media	Wet Chemical	Wet Chemical	Wet Chemical
Painting	Polished Stanless	Polished Stainless	Polished Stainless

TAINLESS STEEL ATER MIST RE EXTINGUISHERS	
ne extinocionato	
/	Carrings.
(	WATER MIGT
/	220
23	Total Control

Copacity	Z Lin	6 Ltrs	9 Lips
Min. Jet Length (in mts)	2 to 4 Mm.	2 to 4 Mm	2 to 4 Mirs.
Discharge Time Min.	8 Seconds	45 to 55 Seconds	75 to 88 Second
Charge Pressure	15 Kel / cm²	15 Kg//cm²	15 Kgl / cm²
Test Pressure	35 Kgf / cm²	35 Kgt / cm <sup>-2</sup>	35 Kgd ( cm²
Exanguation Media	Water	Water	Water
Painting	Folished Stairless	Polished Stainless	Polished Stainage

#### NEW BHARAT FIRE PROTECTION SYSTEM PVT. LTD.

CORPORATE OFFICE:

U.718. S. T.M. Estato, Rinar S. B. L. Bank,
U.718. S. T.M. Estato, Phys. S. B. L. Bank,
U.8. S. Roul, Banking (W), Machini -400 UTS
Tel: 102.2594 VI 70 / 2784 VI 50
Tel: 202.2594 VI 70 / 2784 VI 50
Telica, 2235 VI 60 69 - HELP LINE 9852175070
Email: hu@owetharallivii.com

Mahurasilivii. UUIA.

www.newbharatfire.com







PERSONAL NEW BHARAT FIRE PROTECTION SYSTEM PVT. LTD.













SAFETY FIRST S mark ABC Type fire extinguisher covers A, B, class of fires which includes Paper Wood, Cloth, Rubber, Plastic inflammable liquid like oil, Petrol, Pain Petrochemical Product, Resins, Gases the compressed Form like Oxyge Acetylenes, LPG & CNG, Electrical Sophisticated electrical equipments.

C	TECHNICAL SPECIFICATION							
ers.	FIRE EXTINGUISHER CAPACITY TYPE OF FIRE EXTINGUISHER IS STANDARD	1 KG STORED PRESPURE (IS-156R3)	2 KG 6100ED-PREASURE (IS-15683)	4 RG stokes receive (IS-156R3)	6 RG 9704(3) PRESELVE (I5-156R3)	9 KG stoken mosern (IS-156KI)		
nts.	THROW OF JET MAINTAINED	8 sec	8 sec	16 sec	20 sec	25 sec		
	RANGE OF JET	2 min.	3 mtr.	4 mt.	6 mts	6 mts		
gen.	EMPTY WT (APPROX)	1 kg	1.3 kg	2.75 kg	3.3 kg	5.35 kg		
	FULL WT. (APPROX)	2 kg	3.3 kg	6.75 kg	9.3 kg	14.35 kg		
	FIRE RATING	1 A. 8 B	1 A.8 B	24, 21 H	3A. 34 B	34.34B		
1 &	WORKING PRESSURE	15 KGEICMF	15 KGF/CM*	15 KGF/CM*	15 KGF/CM*	15 KGP/CM		
	HYDRO PRESSURE	36 KGEICMF	35 KGF/CM*	35 KGF/CM*	35 KGF/CM*	35 KGP/CM		
	BURSTING PRESSURE	56 KGEICMF	55 KGF/CM*	55 KGF/CMF	55 KGF/CM*	55 KGP/CM		



TECHNICAL SPECIFICATION								
FIRE EXTINGUISHER CAPACITY	4 kg	6 kg. ABC	9 kg. ABC	25 kg	50 kg	75 kg		
TYPE OF FIRE EXTINGUISHER	CARTREDCE TYPE	CARTRIDGE TYPE	CARTRIDGE TYPE	CO, TYPE	CO, TYPE	CO, TYPE		
IS STANDARD	(IS-15683)	(IS-15683)	(IS-15683)	(IS 16018)	IIS 16018)	(IS 16018)		
THROW OF JET MAINTAINED	20 sec	20 sec	25 sec	25 sec	40 sec	50 sec		
RANGE OF JET	4 mir.	4 mtr.	6 mir.	6 mir.	8 mtr.	10 mtr		
EMPTY, WT (APPROX)	4.2 kg	5.2 kg	7.05 kg	30 kg	60 kg	75 kg		
FULL WT. (APPROX)	8,2 kg	11.2 kg	16:05 kg	55 kg	110 kg	150 kg		
FIRE RATING	2A.21 B	3A. 34 B	3A. 34 B	20A. 233 B	20A, 233 B	20A, 233 B		
WORKING PRESSURE	15 KGF/CM	15 KGF/CM1	15 KGE/CM	15 KGF/CM	15 KGE/CM	15 KGE/CM		
HYDRO PRESSURE	35 KGF/CM	35 KGE/CM <sup>®</sup>	35 KGE/CM*	35 KGF/CM <sup>®</sup>	35 KGE/CM	35 KGE/CM		
BURSTING PRESSURE	55 KGF/CM <sup>4</sup>	55 KGE/CM <sup>c</sup>	55 KGE/CM <sup>2</sup>	55 KGE/CM <sup>a</sup>	55 KGF/CMF	55 KGE/CM		





\$ 1982 \$5

SAFETY FIRST S mark water type fire extinguisher provides safety against "A" class of fire which involves materials like wood, paper, cloth, plastic & fiber, Rubber

CAUTION : NOT TO BE USE ON ELECTRICAL FIRE

FIRE EXTINGUISHER CAPACITY	6 ltr	9 ltr.	9 lb	45 ltr.
TYPE OF FIRE EXTINGUISHER	(Stored Pressure)	(Stored Pressure)	(CARTRIDGE TYPE)	CARTRIDGE TYPE
IS STANDARD	3S 15683	IS 15683	IS 15683	15 16018
THROW OF JET MAINTAINED	25 sec	45 sec	45 sec	180 sec
RANGE OF JET	4 mtr	6 mtc.	10 mtr	10 min
EMPTY, WT (APPROX)	3.2 kg	5.35 kg	5.35 kg	35 kg
FULL WT. (APPROX)	9.2 kg	14.35 kg	14.35 kg	80 kg
FIRE RATING	3A	3A.	3A:	20A
WORKING PRESSURE	15 KGE/CM <sup>®</sup>	15 KGF/CMF	15 KGF/CM <sup>c</sup>	15 KGF/CMF
HYDRO PRESSURE	35 KGF/CM	35 KGF/CM	35 KGF/CM	35 KGE/CM"
BURSTING PRESSURE	55 KGE/CMF	55 KGF/CM	55 KGE/CM <sup>2</sup>	55 KGE/CM



stationery, flammable & volatile liquids like oil. petrol, kerosene, solvent & chemical, wax, resins

CAUTION : NOT TO BE USE ELECTRICAL

FIRE TECHNICAL SPECIFICATION								
FIRE EXTINGUISHER CAPACITY	6 ltr	9 ltr.	9 ltr.	45 ltr	60 ltr	125 ltr		
IS STNDARD	IS 15683	IS 15683	IS 15683	IS 16018	IS 16018	IS 16018		
TYPE OF FIRE EXTINGUISHER	Stored Pressure	(Stored Pressure)	(Cartridge Type)	[Cartridge Type]	CO, TYPE	CO, TYPE		
THROW OF JET MAINTAINED	35 sec	35 sec	35 sec	40 sec	180 sec	360 sec		
RANGE OF JET	6 mtr	6 mtr.	6 mtr.	10mtr	10mtr	10mtr		
EMPTY: WT (APPROX)	3.2 kg	5.35 kg	7 kg	35 kg	50 kg	125 kg		
FULL WT. (APPROX)	9.2 kg	14.35 kg	16 kg	90 kg	120 kg	200 kg		
FIRE RATING	2A. 34 B	3A.34 B	4A. 55 B	20A. 233 B	20A. 233 B	20A 233 B		
WORKING PRESSURE	15 KGF/CM	15 KGF/CM	15 KGF/CM	15 KGE/CM	15 KGF/CM	15 KGF/CM		
HYDRO PRESSURE	35 KGE/CMF	35 KGE/CMF	35 KGF/CMF	35 KGE/CMF	35 KGF/CM	35 KGE/CMF		
BURSTING PRESSURE	55 KGE/CMF	55 KGF/CMT	55 KGF/CMT	55 KGE/CMF	55 KGF/CMF	55 KGE/CMF		





CARBON DIOXIDE TYPE FIRE EXTINGUISHER

FOR "B" & "C" CLASS OF FIRES

SAFETY INST I mark carbon dioxide type fire extinguisher are suitable for B & C Class of fires involving all flammable liquids, gases, live & delicate, Machinery Fires, Electrical & sophisticated electronic equipments fires transformer & switch gear fire. This extinguisher is approved by explosive Department, Govt. of India, NagpurTHE NEW CO2 SQUEEZE GRIP TYPE PORTABLE FIRE EXTINGUISHER FROM SAFETY FIRST is also Available.



				TECHNICAL SPECIFICATION									
2 kg	3 kg	4.5 kg	6.5 kg	9 kg	22.5 kg.								
CO, TYPE	CO, TYPE	CO, TYPE	CO, TYPE	CO, TYPE	CO, TYPE								
(05-15683)	(IS-15683)	[IS-15683]	(15-16018)	(IS-16018)	IIS-16018)								
15 sec	18 sec	20 sec	25 sec	35 sec	45 sec								
2 mtr.	3 mtr.	3 mtr.	4 mtr	4 mir.	4 mtz.								
6.2 kg	9.5 kg	12.5 kg	20 kg	26 kg	43.5 kg								
8.2 kg	12.5 kg	17 kg	26.5 kg	35 kg	66 kg								
13 B	21 B	21 B	55 B	55 B	89 B								
60 KGE/CM <sup>2</sup>	60 KGE/CM*	60 KGF/CM <sup>2</sup>	60 KGE/CM	60 KGE/CM <sup>5</sup>	60 KGF/CM								
250 KGF/CM	250 KGE/CM	250 KGF/CM	250 KGF/CW	250 KGE/CM <sup>2</sup>	250 KGF/CM								
600 KGF/CM	600 KGF/CM	600 KGF/CM	600 KGF/CM	600 KGE/CM	600 KGF/CM								
	(IS-15683) 15 sec 2 mtr 6 2 kg 8.2 kg 13 B 60 KGF/CM <sup>6</sup> 250 KGF/CM <sup>6</sup>	(IS-15683) (IS-15683) 15 sec: 18 sec: 18 sec: 2 mbr. 3 mbr. 6.2 kg 95 kg 12.5 kg 13 B 21 B 60 RGFCM* 00 RGFCM* 250 KGFCM* 250 KGFCM*	IIS-15683	15-15683    15-15683    15-15693    15-160	15-159830								

SAFETY FIRST



FOR "A" "B" & "C" CLASS OF FIRES

Suitable for A, B, C Class of Fire \* Available in capacity 500 gms., 1 kg. 2 kgs, 5 kgs, 10 kgs. \* WebSed cylinder as well as seamless Cylinders are available HFC OR HCFC Baved

Computer Room • Telecommunications Facilities • Laboratories
 Hospital • Offices (for protection of sensitive electronic equipment)
 Server Roam + Call Center • Barks • Ships



#### CORPORATE OFFICE:

C/210, B. T. M. Estate, Near S. B. I. Bank, L. B. S. Road, Bhandup (W), Mumbai -78

Tel.: 022-2594 10 70 / 2594 01 60

Telefax: 2594 01 60

Email: ho@newbharatfire.com www.newbharatfire.com



AN ISO 9001-2008

Mfg. of: Fire Extinguishers & Dry Powder Clean Agent

## **ABOUT US**

NEW BHARAYFIRE PROTECTION PVT LTD an ISO 9001-2000 Certified Company Leading manufacturer of High Performance Premium Quality, ISI marked approved "Safety First" brand, various types and capabilities of portable and a trolley mounted fire extinguishers, clean agent extinguishing system, CO2 flooding systems, fire Alarm system, Hydrant/Sprinkler systems, Liquid foams and Personal Protective Equipment (PPE) since 1976. We have our own manufacturing unit in wada we have also dealers network all over india.

We are a professional firm providing fire sprinkler systems, fire protection and life safety services. We encourage our team member's growth through personal and professional development to enhance sustained growth of our company. We engage in active partnerships with our clients to provide design-focused solutions with an unyielding approach toward results. While others are content with technical compliance, we are only incident-free satisfied

NEW BHARAT FIRE is a manufacturing of fire detection and all types of fire extinguishing systems, and security devices. All these products are fabricated with high precision and care for deriving proficient and lasting range of systems/devices. We are well versed with the guidelines of National Building Codes International Fire Code such as NFPA,

We undertake the complete process of design, supply, installation, testing, and commissioning of the products range including Fire Hydrant and Sprinklers Detection Fire Alarm and System, Access Control System, systems/devices, all types of fire extinguishers, and CCTV. In addition, we also perform rectification, servicing, and refilling jobs along with Annual Maintenance Contract for complete systems on turn-key basis.

New bharat Fire Services was setup with the aim to offer best access control systems/devices and fire detection and extinguisher systems. Our entire gamut of products is imparted to the customers as per their requisites in terms of attributes and application, and offered at industry-leading

We, at the Engineering and Safety Division of safety first Products and Services deal with Good Ouality Fire Extinguishers in mumbai of various types and capacities to suit your requirement. We deal with the following Fire Extinguishers.

NEW BHARAT FIRE **Products and Services** has evolved from three growing firms merging together to channelize our efforts under one brand name and to be a single stop shop for the various Quality Products and Services offered by us. As a strong new force we aim to excel in delivering Products and Services in an ever changing and ever competitive environment. Since our inception in

















2006, we are built on a culture that encourages team work, creativity, hard work and respect for individuals.

Inzinc Products and Services comprises of three divisions – Engineering & Safety division, Consulting Division and Publishing division. Each of these divisions is handled by experienced professionals who deliver the best results.

We are a MUMBAI based Company and intend to extend our horizons beyond all boundaries. Our richly experienced team will surely help us achieve this dream through innovation, positive thinking, efforts and focus on our customers.



















## **HYDRANT SYSTEMS**

Fire Fighting Hydrant Systems are the most commonly used systems, in many residential and industrial projects. If you have ever seen a "Red" colour pipe, circulating around a building or factory, you have seen a Fire Hydrant Pipe. In most news clippings about a fire, you can see a fireman shooting water up to 8stories high or more, that fire man is using the Fire Hydrant System. Such is the power of the Fire Hydrant System that water can be shot right up to 8 floor, directly into the fire.



# Is it always necessary to provide Fire Protection with Fire Hydrant Systems?

Fire Hydrant Systems forms the basis, of Fire Protection Systems, without Fire Hydrant System a Fire Protection System cannot be called a Fire Protection System. It will be a superficial system. (With respect to large areas, in general). Fire Hydrant System installation is relatively easy.

## **How do Fire Hydrant Systems Function?**

A special well is dug, called "Fire Well", where water is stored throughout the year for 365days. This water well is connected to the pump room. From the pump room, there are two to three main pipes. These pipes form a network of pipe that cover the factory compound and the factory. The pump has the work, to continuously filling all the pipes connected with water under pressure. The pressure is nearly

7bar

to

10bar.

When a fire is seen by a person, he activates the hydrant system and points it in the direction of the fire. A very strong flow of water now, attacks the fire and the fire is eventually extinguished. The pump continuously pumps the water to maintain the system pressure.

What are the advantages of Fire Hydrant Systems?















Fire Hydrant Systems are very strong and can be used from medium to large sized fires. Fire Hydrant Systems, have a long range. Since the Fire Hydrant System is spread out, the fire hydrant can attack fire from different angles. This entire systems requires low maintenance and virtually, does not leak water. Besides this, Fire Hydrant Systems have a long life.

## What are the disadvantages of Fire Hydrant Systems?

There are few disadvantages. The first is that it has to be manually activated. The flow of Fire Hydrant System is so strong that, there are two men required to hold the water hose. Fire Hydrant System, may cause damage to instruments machines. the or

Fire Hydrant systems are very popular and hence many, Clients search only for Fire Hydrant Companies or Fire Hydrant System Suppliers; but the important thing to understand is that it may not be the most efficient system.



















## GAS SUPPRESSION SYSTEM

Fire Protection Gas Suppression System or simply called as Automatic Fire Suppression System (or Gas Suppression System), is relatively a new technology in India. Unlike conventional system that use water, in Gas Based Fire Suppression System; water is never used and yet the fire is extinguished. Here Gas is used to extinguish the fire. Hence it is a Gas Based system. The fire gets extinguished, within a minute of activation and everything is automatic.



# Is it always necessary to provide Fire Protection with Gas Suppression System? Or Why go for a Gas Suppression System?

Absolutely not. In certain areas like Server Systems, Art Galleries or near delicate machinery, water can cause more and permanent damage than the fire. In the Server Room, the data in the server is more costly than the server itself. If the art piece or data, gets damaged or lost; it would result in an immeasurable loss.

## **How do Gas Suppression System Function?**

Gas Suppression Systems are generally used in concealed rooms. The principle used by Gas Suppression System is by breaking the Fire Triangle, the fire ceases to exist. In the room, protected by Gas Suppression System, there are various detectors placed at various locations. Each detector constantly monitors the room for signs of fire. As soon as fire is detected, an alarm is sounded, to the personnel to evacuate the entire room. Then, the a gas like, Novec, Clean Agent or Co2 is released in the enclosed room. Thus, the oxygen in the room is rapidly reduced, to a level where fire cannot exist. However, living organisms remain unharmed, because of the gas. Because of such a system, all the delicate or critical items remain untouched and unharmed by fire or water.

There are generally, two principles used in Gas Suppression Systems :

1) The Total Flooding Principle: The Gas Suppression System is used in an enclosed room or isolated location.

2) The Local Application Principle: The Gas Suppression System is directly applied to the fire,















immediately on the fire affected area. There are no physical barriers present, as in the case of the total flooding principle.

## What are the advantages of Gas Suppression System?

The main advantage of Gas Suppression System, system is that it is very quick. The gas used in Gas Suppression System, does not have any smell or colour. It is also friendly to nature. Gas Suppression System also have very easy maintenance and occupy lesser space. It does not have any kind of flavour.

### What are the dis-advantages of Gas Suppression System?

There are but, a few disadvantages of such a system. Firstly it can only be used in enclosed spaces and secondly, that is relatively costly.

## There are various Clean Agent Fire Suppression Systems or Gas Suppression systems used in the market:

- 1) Argon Gas Suppression System or Argon Clean Agent Systems.
- 2) FM 200 Clean Agent Systems
- 3) Novec 1230 Clean Agent Systems or Novec Fire Protection System
- 4) FE-13 Clean Agent Systems
- 5) Carbon Dioxide Co2 Clean Agent Systems or Co2 Total Flooding System

















## **FOAM SYSTEM**

Fire Protection Foam, also locally know as Foam Fire Fighting System; is a system of firefighting, where water is not used. In certain cases, water can actually cause, the spread of fire; example, electrical fire or petroleum based fires. Here, automated fire protection is critical and has to be provided, yet water should not to be used. This challenge is met by the Fire Protection Foam.

## How does the Fire Protection Foam System, actually works?

To sustain a fire, we require three things, Fuel, Ignition or Spark and Oxygen. These three elements form the basis of fire, also referred to as the Fire Triangle. If one of the elements is missing, the fire will not exist. Fire Protection Foam System, isolates the oxygen, from the fire or fuel.

When the Foam sprinkler detects that the fire is present, it is triggered. This causes the water to flow into the bladder tank. The foam concentrate, goes into the bladder tank via the proportioner. The proportioner, maintains and keeps in check the desired; percentage of foam. The foam is formed when the foam concentrate and the water mix. in the right

This foam passes though the pipes, under pressure and directly on the fuel or fire, though the sprinkler. The foam covers the fuel like a blanked and isolates the Oxygen. The Fire Triangle is now, broken.

## Types of Class 'B' Foams:

Aqueous Film-Forming Foam(AFFF): This is a high quality foam. It is popularly used in, refineries, airports and manufacturing plants. They can be used in a variety of mediums, they are hence very versatile.

**High Expansion Foam:** They are used in very large areas. Along with the area, they also cover a sizeable height; hence also used to provide three dimensional protection in areas like warehouses and ships. They seem to be very effective, where spillage or a hydrocarbon fire might take place.













## SPRAY SYSTEM

A Water Spray System, for Fire Protection a different variant of Fire Sprinkler System. Such a system is used in places where fire is likely to rapidly spread out of control, within a short duration. Examples of such places, where Water Spray System, for Fire Protection are required are; Transformers, LPG bullets and Combustible fuels.

## Is it compulsory to have/install, Water Spray System, for Fire Protection?

It depends on the type of system, equipment or inflammable liquid, in use. If however, you are using any substance that are highly inflammable, combustible or catch fire and spread quickly. This system is a mandate for you.

## **How Water Spray System, for Fire Protection, Works?**

Let us take an example to be more specific and clear. In an oil cooled transformer, the oil is likely to catch fire after a certain temperate is exceeded and instantly the entire transformer will catch fire and burn from all sides; even though the transformer is made up of metal. To avoid this, kind fire, we use Water

Spray

System.

Here, there may be multiple metal rings of detectors, a detector is nothing but a temperature sensing element. This detector ring is placed next to the most likely sots where the temperature is about to exceed or fire is about to take place. Also the, entire transformer is surrounded by multiple sprays, at multiple levels. A spray is nothing, but a sprinkler without the temperature sensing, bulb.

When the fire does take place, the detector ring detects this; and gives the signal to the deluge valve or all the sprinkler surrounding the transformer to start all at once. Hence the entire transformer is flushed with water, to cool it down.

## There are two variants of Water Spray System, for Fire Protection:

- 1) High Velocity Water Spray Systems (HVWS)
- 2) Medium Velocity Water Spray Systems (MVWS)















## **High Velocity Water Spray Systems (HVWS):**

HVWS, is generally used in oil based systems, having high flash points. The velocity of the water sprays, hitting the system under fire is critical for successful fire extinguishing action.



## **Medium Velocity Water Spray Systems (MVWS):**

MVWS, is generally used in oil based systems, having low flash points. The velocity of the water sprays, hitting the system under fire, if it is high, might actually spread the fire, and not extinguish it. Hence, the velocity of the water has to be in range.















## FIRE ALARM SYSTEM

## Fire alarm system

Fire Detection System in India or Fire Alarm Systems (FAS) are an early warning system for industrial or residential complexes. A Fire Alarm System is a passive system, meaning it does not stop the fire from spreading. It means that the Fire Alarm System does not actively fight the fire. The main function of a Fire Alarm System is to give an early warning, that the fire has taken place in the factory or residential complex. This means that, the people in proximity to that area have an early warning to evacuate the building. However the fire will continue to burn, unless if an active system like Fire Hydrant System or Fire Sprinkler System is engaged.

The second function of the Fire Alarm System is to, alert the responsible authorities. Here the authorities may be the local Fire Department or the Emergency Action team.

The third function is to support the Fire Brigade, when they enter the building on fire. A Fire Alarm System also provides necessary emergency lighting, so that the Fire Team can navigate through the smoke and the dust.

There are two types of Fire Alarm Systems, based on the detection of location of fire :

1) Addressable Fire Alarm Systems

2) Non- Addressable Fire Alarm Systems

## Addressable Fire Alarm Systems:

Addressable Fire Alarm Systems are also called Smart Fire Alarm Systems. This is because along with detection of fire they provide the location of the fire. As and when the fire spreads the FAS, alert accordingly. In addition they may provide an array of other specific services. Up to 250 devices may be connected, to the main control panel of the Fire Alarm System. Fire Alarm Companies in India, have made great strides to make the system more effective and user friendly.

















## Non-Addressable Fire Alarm Systems:

Non-Addressable Fire Alarm Systems are simple FAS. Their primary function is to alert the occupants that a fire has taken place.









Multi Detector



**Heat Detector** 







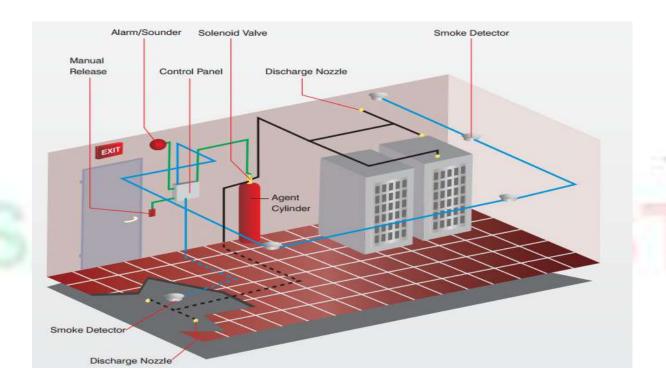






## **INTRODUCING FM 200**

FM-200® (HFC 227ea, known chemically as Heptafluoropropane), is a colourless, odourless gas that is liquefied under pressure for storage. It is thermally and chemically stable, but without the extremely long atmospheric lifetimes associated with other proposed Halon replacements. FM-200® has been specially created to suppress fire by reaching extinguishing levels in seconds, reducing the oxygen supply to below combustion levels and stopping ordinary, electrical, and flammable liquid fires before they can cause significant damage. That's the fastest fire protection available, period! This also means less damage, less downtime and an extra margin of safety. Not only does FM-200® put out fires in a very short period of time, it leaves no residue or oily deposits on delicate electronic equipment, and can be removed from the protected space by ventilation.



FM-200® flooding system is a suppression system that achieves extensive coverage. This self-activated system uses advanced technology to achieve maximum extinguishing efficiency. Here's how it works. When the detectors sense a rise in temperature above normal levels, particles of smoke or a change in the quality of air, they alert the Control Panel. The Control Panel, in turn, activates the System. Once activated, the impulse triggers a high-pressure solenoid valve that releases the FM-200® gas from the cylinders to the nozzle via a flexible piping network. At the same time, a hooter goes off, warning personnel to clear the area while the extinguishing agent is dispersed in the room.

80% of FM-200®'s firefighting effectiveness is achieved through heat absorption and 20% through direct chemical means (action of the fluorine radical on the chain reaction of a flame). Harnessing the latest in cutting-edge firefighting technology, this system has been designed for commercial enterprises and industries. This system requires no monitoring whatsoever,











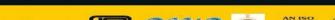




activating instantly in the event of a fire. The FM-200® flooding system can be manually activated too. As soon as a fire is detected, the system is actuated and large quantities of extinguishing agent are released through wide-range nozzles that give the agent more reach. This effectively 'floods' the area, reducing the concentration of oxygen in the air and efficiently putting out the fire. Being self-activated, the system offers protection from fire 24X7, whether anyone's around or not.





















## THE COMPLETE SYSTEM

The System comprises various components that come together to create an unbeatable suppression system.

### **Agent Tank**

An essential component of the system, these high-pressure tanks are available in 4 container configurations, namely 22, 34, 55, 70, 80, 100, 125 and 150 litres. Depending upon the requirement, single or multiple containers are installed. All containers are available with a range of manifolds - creating a common outlet for the extinguishing agent to escape from multiple cylinders.



### **Valves and Actuation Line**

The FM-200 system's valves have a maximum working pressure of 150 bar valve seat Ø 42mm. Since it's already integrated, no additional pneumatic actuator is required. Manual, pneumatic as well as electrical activations are available. Each valve comes with a pneumatic option and a master and slave.



#### **Nozzles**

The extinguishing agent is dispersed through brass discharge nozzles. These nozzles are designed by the Design Cell after surveying the area. From the size of the nozzle orifices, to the dispensing technique – single cut or cross cut – the nozzles are created specially for your requirements. The nozzles are available in various sizes, from 20mm to 50mm.

















## **Pipes and Fittings**

High-quality pipes harness atomisation technology. This pressurises the system, making it a part of the detection mechanism as well as ensuring the extinguishing agent is discharged quickly to the nozzles through the network of pipes.



#### **Detection Devices**

Depending upon the requirements of the area being protected, the system integrates different types of detectors, such as smoke detectors, heat detectors, linear heat detectors and aspirating detectors. In addition, an audible alarm alerts personnel in the area to the danger.



### **The FM-200**

Control Panel Designed and manufactured to the highest standards in a quality-controlled environment, the FM-200 control panel offers outstanding value and performance. With three detection zones, the extinguishing agent's release can be activated from any combination of detection zones. The panel contains a large LED display to enable easy configuration and control. The countdown timer is duplicated on up to seven remote status units to provide local indication of the FM-200 system's status. With all the electronics mounted on a single, easily removable, steel plate, the panel is both robust and easy to install.















# Benefits of the FM-200 Flooding System:



### Classification

Works on class A, B, C fires and fires involving electrically-charged devices. Effective on a wide range of flammable and combustible materials.



## **Speedy Deployment, Minimal Downtime**

Deploys quickly, reaching extinguishing levels in 10 seconds or less, stopping ordinary combustible, electrical, and flammable liquid fires before they cause significant damage. When a fire is extinguished this quickly, it means less damage, lower repair costs, and an extra margin of safety for people. It also means less downtime and disruption of business.



### **Electronics-Friendly**

Shown to be electrically nonconductive and is safe for electrically charged equipment, it is kinder on electronics than the majority of extinguishing agents available in the market.



### **Ozone, Environment-Friendly**

Being a clean-agent, this is an ecofriendly alternative to chemical and water-based extinguishing systems. As FM-200® already exists as a gas in the Earth's atmosphere and is one of the by-products of combustion, it does not harm the Earth's stratospheric ozone layer. Its atmospheric lifetime is minimal.



## **Superior To Other Gas Agents**

FM-200 is superior to other gas-based extinguishing agents that have lower boiling points and tend to be corrosive.



#### **High-value Risk Protection**

Suitable for protection on a range of high-value risks as it virtually eliminates damage to high-tech equipment, artwork and other delicate and sensitive objects.



## No Clean-up Required After Discharge

After a discharge, the extinguishing agent can be removed by simple ventilation.



## **Lower Storage Requirements**

In applications where space is at a premium, FM-200 fire suppression systems are the superior choice. Stored in cylinders as a liquid and pressurized with nitrogen, FM-200 systems take up to seven times less storage space than any system based on CO<sub>2</sub> and inert gases.



### **Highly Effective**

Not only does FM-200® work in 10 seconds, it prevents re-ignition by rapidly cooling down temperatures in the surrounding area.



## **Highly Reliable**

A fully assembled and 100% tested mechanical control head ensures reliable operation. A pressure gauge on the steel cylinders marks the gas levels so maintenance staff can replenish it whenever required. Protective chrome nozzle covers keep nozzles free from contamination and blockages by grease or other by-products that could inhibit the proper discharge of the extinguishing agent.















### **24-hour Protection**

Automatic detection and actuation controls ensure fire protection is always 'on'.



### **Globally Utilised**

FM-200 is the only globally accepted flooding system gas and is in use in over one hundred thousand applications, in more than 70 countries.



## **Multiple Triggers**

The system can be triggered either by the manual actuation system or through the automatic detection system.



### Residue-Free

Being a clean agent, it won't leave behind oily residue, particulate or corrosive material



### **Superior Quality**

FM-200 manufactured DuPontTM, a 208-year old science and technology company that is renowned for its high-quality operations in 90 countries.



### **Highly Flexible**

Available in a variety of sizes that can be customised as per the application. Its flexible configuration and design can easily accommodate changes to the layout or expansion of the area.



## **Highly Adaptable**

Existing Halon/CO2 control systems can easily be adapted for use with FM-200



## **Unobtrusive Design**

Flexible piping configurations allow streamlined design convenient installation that will not interfere with office workflow.



The FM-200 low-pressure Storage Areas

flooding pre- Underground Parking Lots system is engineered and ready to install. • Air Traffic Management

250 cubic metres. It is an ideal Telecommunication Centers

fire safety solution applications such as:

- One system covers spaces upto Centers

  - for Electric Utilities
    - Financial Networks Medical Equipment
    - Museums and Libraries
    - Marine Vessels
    - Switch Gear Rooms
    - **Automotive Factories**
    - Battery Rooms

- **Computer Rooms**
- **Medical Facilities**
- High-density/High-value
- Areas Laboratories
- Military Facilities
- **Archive Stores**
- Delicate Electrical Equipment
- Petroleum Storage
- Cell Sites
- Industrial Control Rooms
- Transportation
- Flammable Liquid Storage
- **Machinery Spaces**



Offices

Server Rooms

Data Centers

Call Centers

Warehouses

Theatres















### HYDRANT SYSTEM

#### SPRINKLER SYSTEM

### FOAM SYSTEM





Hydrant installation consists of a system of pipe work connected directly to the fire water tank through the fire pump to provide water to each and every hydrant outlet and is intended to provide water for the firemen to fight a fire

Fire sprinkler systems are designed to actively fight a without any human participation. As soon as the fire protection system detects heat generated by sprinklers will actively engage that area which is under fire only. Meanwhile, you can basic foam system will concentrate on getting yourself and your associates out of the office/house while system works the extinguish the fire.

Firefighting foam systems suppress fire by separating the fuel from the (oxygen). Depending on the type of foam system, this is done in several Although many other types of systems are available; a always require foam agent proportioning storage, equipment, one or more discharge devices, and a manual and/or automatic means of detecting the fire and actuating the system.

Protection Type : Active Protection Level : ★★★☆☆ Instillation Difficulty: ★★☆☆☆ : ★★☆☆☆ Investment Skill Level : Basic

Protection Type : Active Protection Level : ★★★★☆ Instillation Difficulty: ★★★★☆ Investment ·\*\*\*\* Skill Level : Difficult

Protection Type : Active Protection Level Instillation Difficulty: ★★★★☆ : ★★★☆☆ Investment Skill Level : Expert







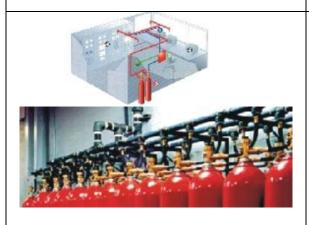








#### GAS SUPPRESSION SYSTEM



The "Inert Gas" used in gas suppression systems, is a gas of the air which has the capacity to be able to treat a fire hazard in open spaces. It is an inert gas, nonconductive, colorless, odorless flavorless. Is no corrosive and may be used at normal temperatures. Appropriate for the protection of all the electric and electronic materials. The design of the system protects against accidental actuation due to any small leak. All gaseous components are stored in high-pressure cylinders in the form of compressed gas, thus space required for such cylinder storage depends on pressure and capacity

Protection Type : Active
Protection Level :  $\star\star\star\star\star$ Instillation Difficulty :  $\star\star\star\star\star$ Investment :  $\star\star\star\star$ Skill Level : Expert

#### FIRE ALARM SYSTEM



A Fire detection and alarm system is what most workplaces and public accessed buildings have in place. The Fire Alarm System has two primary functions and depending on how it is designed, protect the life within the building, giving the occupants sufficient warning of an outbreak of fire, so they can evacuate safely and protect the building and its contents by summoning the Fire Brigade at the earliest opportunity. A fire alarm system will only warn the occupants about the fire it will not stop the fire.

Protection Type : Active
Protection Level :  $\star\star\star\star$ Instillation Difficulty :  $\star\star\star\star$ Investment :  $\star\star\star\star$ Skill Level : None















## Our Client:

















































































































Thank you.....















