



SEARA

SEARA UNIVERSAL PRIVATE LIMITED



SHORT PROFILE:

We *Seaara Universal Private Limited* are one of the leading Company in the field of **Fire & Safety** in India, specialized in Design, Supply and Erection of Fire Protection Systems. A team of well qualified Engineers and technicians manage our Organization with proven ability and experience in the line.

We are proud to present ourselves as a growing competent outfit organization in the field of fire protection and **Safety**. We are planning to open Branch offices in various parts of Country to give better after sales Service.

SERVICES: (Activities)

- Marketing **New Technology** product in fire field and **Human Safety**.
- Marketing **Fire Safety / fire protection / First Aid Equipments**
- **Fire Audit and Training**
- Fire related services with **manpower** & with Equipments
- Handling **Fire Protection Installation**

MARKETING:

We deal A to Z in fire fighting line as per customer need and specification.

- Marketing **New Technology** product in fire field
- Marketing **Emergency Safety Kit / fire protection / First Aid Equipments / Fire fighting Bike**

Fire Auditing / Training:

We do undertake to provide Auditing / Fire training to your Engineers to use and operate Fire Fighting System. We do undertake specialized job of customers choice in the field of fire protection.

Fire Man Supply:

We undertake to provide technical personnel in the field of Fire Brigade to cater to manpower requirement. We also provide technically qualified personnel along with Fire vehicle to full fill your manpower requirement.

Handling Fire Protection Installation:

Design, Supply, Erection, testing & Commissioning of Fire Alarm / Fire Hydrant, Medium & High Velocity water spray, Sprinkler & Co2 / FM 200 Flooding System, Gas Detection System / Aerosol Fire Suppression System, CCTV System. Access Control System & BMS System.

Powder Base Fire Extinguishers



TECHNICAL SPECIFICATION

| | | | | | | | | |
|--------------------------|------------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Approval | ISI Marked as per IS 15683 | | | | | | | |
| Body | Mild Steel | | | | | | | |
| Type | Constant Pressure / Cartridge Type | | | | | | | |
| Extinguishing Media | As per IS: 14609 / IS: 4308 | | | | | | | |
| Propellant | Nitrogen / Co ₂ | | | | | | | |
| Hydraulic Test Pressure | 35 kgf/cm ² | | | | | | | |
| Service Pressure | 15 kgf/cm ² | | | | | | | |
| Operating Temperature | -0° C to +55° C / -10° C to +55° C | | | | | | | |
| Min. Effective Discharge | 85% | | | | | | | |
| Capacity | 1 kg | 2 kg | 4 kg | 6 kg | 9 kg | 4 kg | 6 kg | 9 kg |
| Fire Rating | 1A & 8B | 1A & 8B | 2A & 21B | 3A & 21B | 4A & 34B | 21B | 21B | 34B |
| Discharge Time | Min. 8 S | Min. 8 S | Min. 13 S | Min. 13 S | Min. 13 S | Min. 13 S | Min. 13 S | Min. 13 S |
| Discharge Range | 1 Mtr. | 1 Mtr. | 2 Mtr. | 3 Mtr. | 3 Mtr. | 2 Mtr. | 3 Mtr. | 3 Mtr. |



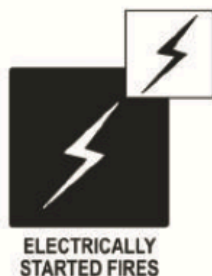
Carbon Di-Oxide Portable & Trolley Mounted Fire Extinguishers

Co. Type Extinguisher actually works on Flammable liquids, Gases & Electrical started Fire.



TECHNICAL SPECIFICATION

| IS Code | IS 15683 | | | IS:16018 | | |
|----------------------------|---------------------------|-----------|-----------|-------------------------|------|---------|
| Type | Stored Pressure. | | | Stored Pressure. | | |
| Filling Ratio | 0.667 | | | 0.667 | | |
| Test Pressure | 250 kgf/cm ² | | | 250 kgf/cm ² | | |
| Operating Temperature | -20° C to +55° C | | | -30° C to +55° C | | |
| Min. Effective Discharge | 95% | | | 95% | | |
| Type of Extinguisher Media | CO ₂ Gas | | | CO ₂ Gas | | |
| Capacity | 2 kg | 3 kg | 4.5 kg | 6.5 Kg | 9 kg | 22.5 kg |
| Fire Rating | 8B | 13B | 21B | 55B | 89B | |
| Discharge Time | Min. 8 S | Min. 11 S | Min. 13 S | 15 S to 25 S | | |
| Discharge Range (Min.) | 1 Mtr. | 2 Mtr. | 2 Mtr. | 2 Mtr. | | |
| Operating Valve (IS: 3224) | Wheel / Squeeze Grip Type | | | | | |



Water Base Fire Extinguishers



| TECHNICAL SPECIFICATION | | |
|--------------------------|----------------------------------|----------------------------------|
| Capacity | 9 Litre | 45 Litre |
| Indian Standard | ISI Marked as per IS 15683 | IS: 16018 |
| Body | Mild Steel | |
| Type | Constant Pressure/Cartridge type | Co ₂ / Cartridge Type |
| Extinguishing Media | Water | |
| Propellant | Nitrogen/Co ₂ | Co ₂ |
| Hydraulic Test Pressure | 35 kgf/cm ² | |
| Operating Temperature | +5° C to +55° C | +5° C to +55° C |
| Min. Effective Discharge | More Than 90% | |
| Fire Rating | 3A | 20A |
| Discharge Time | Min. 13 S | Min. 120 S |
| Discharge Range | Min. 2 Mtr. | Min. 8 Mtr. |

Application Areas
 All A Class Fires Which Involve Materials Like:
 Wood, Paper, Cloth, Fibers, Plastics, Rubber etc.

Foam Base Fire Extinguishers



| TECHNICAL SPECIFICATION | | |
|--------------------------|--|----------------------------------|
| Capacity | 9 Litre | 45 Litre |
| Indian Standard | ISI Marked as per IS 15683 | IS: 16018 |
| Body | Mild Steel | |
| Type | Constant Pressure/Cartridge type | Co ₂ / Cartridge Type |
| Extinguishing Media | Aqueous Film Forming Foam (AFFF) As Per IS: 4989 | |
| Propellant | Nitrogen/Co ₂ | Co ₂ |
| Hydraulic Test Pressure | 35 kgf/cm ² | |
| Operating Temperature | +5° C to +55° C | +5° C to +55° C |
| Min. Effective Discharge | More Than 90% | |
| Fire Rating | 3A & 34B | 20A, 233B |
| Discharge Time | Min. 13 S | Min. 120 S |
| Discharge Range | Min. 2 Mtr. | Min. 8 Mtr. |

Application Areas
 All A & B Class Fires Which Involve Materials Like:
 Wood, Paper, Cloth, Petrol, Diesel, Plastics, Resins & Other Petrochemicals Products etc.



IS : 15683



Clean Agent Fire Extinguisher

| TECHNICAL SPECIFICATION | | | |
|--------------------------|------------------------|-----------|-----------|
| IS CODE | IS 15683 | | |
| Body | Mild Steel | | |
| Type | Constant Pressure | | |
| Extinguishing Media | Clean Agent gas | | |
| Propellant | Nitrogen | | |
| Hydraulic Test Pressure | 35 kgf/cm ² | | |
| Service Pressure | 15 kgf/cm ² | | |
| Operating Temperature | -10° C to +55° C | | |
| Min. Effective Discharge | 85% | | |
| Capacity | 2 kg | 4 kg | 6 kg |
| Fire Rating | 1A & 8B | 2A & 21B | 3A & 21B |
| Discharge Time | Min. 8 S | Min. 13 S | Min. 13 S |
| Discharge Range | 1 Mtr. | 2 Mtr. | 3 Mtr. |

Trolley Mounted Fire Extinguishers

IS : 16018



| TECHNICAL SPECIFICATION | | | |
|--------------------------|------------------------------------|--------|--------|
| Capacity | 25 Kg. | 50 Kg. | 75 Kg. |
| Indian Standard | As per IS :16018 | | |
| Body | Mild Steel | | |
| Type | Co ₂ / Cartridge Type | | |
| Extinguishing Media | Powder (As Per IS:4308 & IS:14609) | | |
| Propellant | Co ₂ | | |
| Hydraulic Test Pressure | 35 kgf/cm ² | | |
| Operating Temperature | -30° C to +55° C | | |
| Min. Effective Discharge | More Than 90% | | |
| Fire Rating | As per IS | | |
| Discharge Time | Min. 120 S | | |
| Discharge Range | Min. 8 Mtr. | | |



Hose Reel Drum

Specification

- Hub IS: 513
- Two Sides Swivel Joint LTB-IS:318
- Pipes IS: 1239 (Part-1,11)
- Wall Bracket IS: 513
- Sides MS Sheets: 513
- Performance: Resistance to Leakage Test
- Hydraulic Pressure: 21 kg. f/cm²
- Approval: ISI Marked from Bureau of Indian Standards Key Features:
- Corrosion Free
- Leakage Free
- Rust Free
- Stores Less Space
- Type-II Pipe with Bursting Pressure of 14 kg/cm
- Ready to Move (Pack)
- Powder Coated
- Light Weight



THERMO PLASTIC HOSE PIPE

- Size : 20mm Dia
- Length : 30 Mtr. & 36 Mtr.
- Type I & II
- Non-corrosive, light weight, Recyclable Thermoplastic material
- Flame resistant, Abrasion & kink resistant
- Better pressure sustainability & appealing looks



Hose Delivery Coupling ISI Marked IS: 903

Technical Specifications

Size: 63mm

Material: LTB-2 Gun Metal - IS:318, Stainless Steel (SS)-

IS:3444 & Aluminium IS:617

Conforming Specification: IS:903

Performance Test

•Hydrostatic (Body): Tested at 21 Kgf/cm²



Branch Pipe & Nozzle ISI Marked IS: 903

Technical Specifications

Size of Branch Pipe: 63mm

Size of Nozzles: 6mm, 12mm, 20mm and 25mm

Material: LTB-2 Gun Metal- IS:318, Stainless Steel (SS)-

IS:3444 & Aluminium- IS:617

Conforming Specification: IS 903

Performance Test

• Hydrostatic Test (Body): Tested at 21 Kgf/cm²



Landing Valve Single (Type A & Type B) ISI Marked IS:5290

Technical Specifications

Size: Inlet 75mm size with one No. 63mm size female outlet instantaneous coupling with pull out type lugs & chain

Material: LTB-2 Gun Metal - IS:318, Stainless Steel (SS)-

IS: 3444 & Aluminium -IS: 617

Conforming Specification: IS 5290

Performance Test

- ' Hydrostatic (Body): Tested at 21 Kgf/cm²
- ' Water Tightness (Seat): Tested at 14 Kgf/cm²
- Flow Test: 900 LPM discharge at 7 Kgf/cm²



Double Outlet Type Landing Valve Type B

Gun Metal / Stainless Steel

Body, Bonnet Assembly: LTB2-IS:318 / IS: 3444

Valve Spindle: Brass Rod - IS: 319/320 / IS: 6603

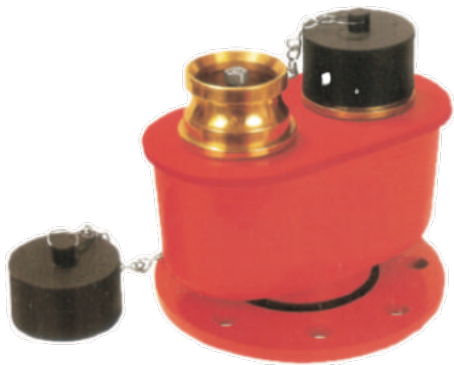
Cast Iron Wheel: IS: 210

Rubber Washer: IS: 937 TYPE- (A)

Spring: Phosphoreus Wire: IS: 7608 / IS: 6528

Gland Packing: Asbestos Thread: IS: 4687





FIRE BRIGADE CONNECTION Two way/Three way/Four way

Size • 63mm dia
Material : Gun Metal/S.S. & Cast Iron Body
Performance Hydraulic Test: 21 Kg/cm²



Mobile Foam Unit General Specifications

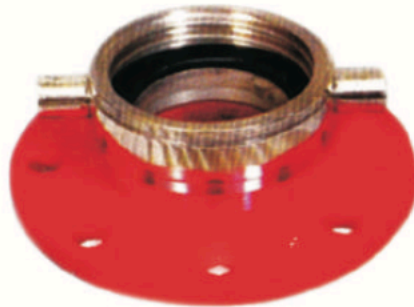
| | | |
|------------------|---|---|
| Trolley | : | EPE Powder Coating |
| Tank | : | Fibre Glass I Stainless Steel & M.S. |
| Inductor | : | 0% - 0% at 225 Lt/Min |
| Foam Branch Pipe | : | Aluminium Alloy Male Instantaneous Connection to BS 338 |



| Input pressure bar | Total Water Flow | Approx. Running Time Indicator | Approx Foam Throw Branchpipe |
|--------------------|------------------|------------------------------------|------------------------------|
| (Lt/min) | | Setting (per minute) Low expansion | |
| | | 3% | |
| 5 | 182 | 22 | 15 |
| 7 | 215 | 18 | 18 |
| 10 | 225 | 16 | 20 |



Revolving Nozzle



C. I. Draw Out Connection



G. M. Air Release Valve



Triple Purpose Nozzle



Suction Coupling



G. M. Dividing Breeching



Fire Bucket



Fireman's axe



Fire blanket



Fire Man Suit



Siren Electric



Hand Operated Siren



SPRINKLER (Pendent/Sidewall/Upright)

| | | |
|--------------------------|---|------------------|
| Temperature Rating | : | 68°C |
| Glass Bulb Colour | : | Red |
| Thread Size | : | NPT1/2" or R1/2" |
| Max Service Pressure | : | 175psi |
| Glass Bulb Diameter (mm) | : | 05 |



Flexible Sprinkler Hose

TECHNICAL DATA

| | |
|---------------------------------------|----------------------------------|
| Available product length and type | 700mm to 1800 (28" to 70") |
| Available square bar length | 700mm to 1500 (28" to 59") |
| Max. working pressure | 14 kgf/cnrf (200psi) |
| Max. ambient temperature | 107°C (225°F) |
| Minimum installation Bending Radius | 75mm (3") |
| Bending Angles (Flow Direction) | up to 180 Degree |
| Largest K factor for 1 /2 inch outlet | 5.6 [gpm/(psi) ^{1/2}] |
| Largest K factor for 3/4 inch outlet | 14.0 [gpm/(psi) ^{1/2}] |
| Intended use | Wet system and dry system |



Fire Fighting Hose

CP HOSE / R.R.L. HOSE

| Diamater | Bursting Pressure | Proof Pressure | Approx Coil Dia (30M. Length) |
|----------|---------------------|---------------------|-------------------------------|
| M.M. | Kgf/Cm ² | Kgf/Cm ² | CM |
| 38 | 35.7 | 21.4 | 44-45 |
| 50 | 35.7 | 21.4 | 44-45 |
| 63 | 35.7 | 21.4 | 44-45 |
| 70 | 35.7 | 21.4 | 44-45 |

Fire Fighting Equipments



| Dry Chemical Powder Sodium bi-Carbonate Based | |
|--|-------------------------------------|
| Typical Physiochemical properties as per IS: 4308 : 2003 | |
| Sodium Bi-Carbonate | : 90% Min. |
| Apparent density | : As per IS: 4308 : 2003 |
| Moisture content | : Less than 0.25% |
| Particle Size | : As per IS: 4308 : 2003 |
| Corrosion & Abrasion effect | : Non corrosive or abrasive |
| Temperature stability Range | : -60° to +55°C |
| Appearance | : White |
| Packing | : 5/50 kg. Hermetically sealed bags |
| Storage | : -5°C to +50PC |



| Aqueous Film Forming Foam (AFFF) Concentrate | |
|---|--|
| PH | : 6.5-8.5 |
| Specific Gravity | : 1.00- 1.12 |
| Miscibility with Water | : Miscible |
| Viscosity | : Max 10 cst |
| Sludge Content | : Max. 0.25% |
| Freezing Point | : - Zero |
| Film Formation | : Forms Films |
| Expansion | : > 6 |
| 25% Drainage Time | : Conform to Relevant Standard |
| Fire Extinction Time | : Conform to Relevant Standard |
| Burnback Resistance | : Conform to Relevant Standard |
| Packing | : 540 ml. / 3t / 20 (. Plastic Containers. |

Modular Fire Extinguisher



| TECHNICAL DATA | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| Capacity | 2 kg. | 4 kg/5 kg. | 9 kg./10 kg. |
| Media | Powder/Clean Agent | | |
| Area Coverage | 2-3m ² Approx. | 3-4m ² Approx. | 3-4m ² Approx. |
| Test Pressure | 35 kgf/cm ² | | |
| Anti Corrosive Treatments | Powder Coated | | |
| Charged Weight | 3.5 kg approx. | 6.5kg to 7.5kg approx | 12.5kg to 13.5kg approx. |
| Charged Pressure | 15 kgf/cm ² | | |
| Discharge time (S.) | 5-7 | 8-10 | 10-15 |
| Mounting | Ceiling Mounting Type | | |

Foam Branchpipe & Inductor-Low Expansion

SEAARA low expansion foam branch pipes are suitable for use hydrocarbon fire and come with adjustable variable valve from 0% to 6%. There are two types-One is with integral inductor, pick up tube and pierces, and another is without the pick up tube for premix foam. This product is suitable for polar solvent, AFFF and protein foam.



| Code | Description | Induction Rate |
|------|--|----------------|
| A- | Lt Premixed Foam Branch pipe at 7 Bar | |
| B- | Lt Foam Branch pipe c/w pick up tube and stainless steel piercer | 3% or 6% |
| C- | Lt Foam Branch pipe c/w pick up tube and stainless steel piercer & Adjustable variable valve | 0% or 6% |
| D- | Lt Foam Branch pipe c/w pick up tube and stainless steel piercer | 3% or 6% |
| E- | Lt Variable Foam Inductor c/w pick tube stainless steel piercer | |



Water / Foam Monitors

Standpost Mounted
 LTB2 Swivel Joint
 Locking system for change in directions.
 LTB2 Jet Nozzle
 Bearings with S. S. ball in survival joint
 Performance Test: 23 kgs f/cm²



Addressable Smoke Detector

Outline

Sealara's range of addressable intelligent smoke detectors with wide sensitivity range incorporate sophisticated technology that includes an optical chamber mounted with sensors which are monitored by the unit having algorithms to detect smoke and reduce the rate of false alarms. They are intended to be used with sealara addressable fire alarm control panels and each device is tagged with a unique ID and uses robust digital communication path to report the smoke density levels to the control panel.

Features

- Low standby current
- Sleek, low-profile design
- Removable cover and insect screen
- LED blinks when polled & latches on alarm
- Back pressure sealed
- EMI/EMC protection for reliability
- Soft addressing
- Vandal-resistant Locking

Specification

| | | |
|-----------------------|---|--------------------|
| Product Class | : | Addressable |
| Sensor | : | Photoelectric |
| Alarm Current | : | 25mA |
| Operating Voltage | : | 18-24V DC |
| Housing | : | Polycarbonate |
| Alarm Output | : | RED LED |
| Operating Temperature | : | -10°C to +55°C |
| Operating Humidity | : | <95% Non Condensed |



Addressable Combination Detector

Outline

Sealara's analogue addressable intelligent combination/Multi Sensor detectors utilizes both smoke and heat sensors for the detection of smoke and heat at the very early stage of fire with greater accuracy. They are intended to be used with sealara addressable fire alarm control panels and each device is tagged with a unique ID and uses robust digital communication path to report the smoke density and heat levels to the control panel. These Devices are housed with LED to indicate the device activity, a removable cover and insect screen for easy maintenance.

Features

- Low standby current
- Sleek, low-profile design
- Removable cover and insect screen
- LED blinks when polled & latches on alarm
- Back pressure sealed
- EMI/EMC protection for reliability
- Soft addressing
- Vandal-resistant Locking

Specification

| | | |
|-----------------------|---|----------------------|
| Product Class | : | Addressable |
| Sensor | : | Heat & Photoelectric |
| Alarm Current | : | 25mA |
| Operating Voltage | : | 18-24V DC |
| Housing | : | Polycarbonate |
| Alarm Output | : | RED LED |
| Operating Temperature | : | -10°C to +55°C |
| Operating Humidity | : | <95% Non Condensed |

Addressable Network Fire Alarm Panel

Outline

SEAARA series of intelligent addressable fire alarm control panels combined with sophisticated functionality and user friendly simple operations are ideal for commercial, residential and industrial applications. The core system has interlinking networking capability, powerful programming options and one analogue loop that supervises the devices and has internal short circuit isolator to provide protection against short circuits in loop wiring. These panels are available in various configurations and customization.

Advantage of networking support offers the flexibility of remote monitoring and control of the panel that simplifies maintenance in a cost effective manner.

Features:

- Expandable Analogue loop
- 128 devices per loop
- TFT display with Touch Screen
- Fire I Fault relay
- Networking support up to 32 panels
- Event log with date and time stamp
- Onboard Self Test
- User friendly programming interface
- Auto program functionality



Specification

| | |
|-----------------------|-------------------------------|
| Product Class | Addressable |
| Primary Supply | : 230V AC \pm 10%-15% (nom) |
| Secondary Supply | : 12v 7Ah Battery (2 nos) |
| Operating Voltage | : 30V DC \pm 1V |
| Relay contacts | : 2 |
| Relay contact rating | : 2A @ 30V DC |
| Indications | : Touch Screen |
| Networking | : Yes |
| NAC Output | : Yes |
| Housing | : Mild Steel |
| Operating Temperature | : 0°C to +50°C |
| Operating Humidity | : <95% Non Condensed |

Addressable Manual Call Point

Outline

Manual call point is designed for the purpose of triggering alarm manually in the event of fire or any other emergency and are available in single or dual action models. Each device is tagged with a unique ID that speed with the emergency personnel response time by pin-pointing the location of the alarm sources



Specification

| | |
|-----------------------|--------------------|
| Product Class | Addressable |
| Type | Break Glass |
| Alarm Current | 25mA |
| Operating Voltage | 18-24V DC |
| Housing | Mild Steel |
| Alarm Output | RED LED |
| Operating Temperature | -10°C to +55°C |
| Operating Humidity | <95% Non Condensed |



Addressable Heat Detector

Outline

Seaara's Addressable Intelligent Heat detector provides early warning of fire with greater accuracy. The device triggers alarm when the temperature reaches programmed threshold level. They are intended to be used with seaara addressable fire alarm control panels and each device is tagged with a unique ID and uses a robust digital communication path to report the heat levels to the control panel. These devices are housed with LED to indicate the device activity.

Features

- Low standby current
- Sleek, low-profile design
LED blinks when polled & latches on alarm
EMI/EMC protection for reliability
- Soft addressing
- Vandal-resistant Locking

Specification

| | |
|-----------------------|--------------------|
| Product Class | Addressable |
| Sensor | Heat |
| Alarm Current | 25mA |
| Operating Voltage | 18-24V DC |
| Housing | Polycarbonate |
| Alarm Output | RED LED |
| Operating Temperature | -10°C to +55°C |
| Operating Humidity | <95% Non Condensed |



Addressable Sounder Beacon

Outline

SSBRO is designed to be used with Seaara's range of Addressable Fire Alarm Control Panels and provides Audio Visual notification with high sound output during emergency. These devices are wall mounted and have two variants with tone selection.

Features

- Low current consumption
- User selectable Tone*
- Easy installation and maintenance
- Loop powered / External power selection
- Excellent reliability high stability

Specification

| | |
|-----------------------|--------------------|
| Product Class | Addressable |
| Sound Level | 90 db @ 10 feet |
| Alarm Current | 30mA |
| Operating Voltage | 18-24V DC |
| Housing | Mild Steel |
| Alarm Output | Audio Visual |
| Operating Temperature | -10°C to +55°C |
| Operating Humidity | <95% Non Condensed |

WE SUPPLY ALL KINDS OF FIRE HYDRANT FITTINGS AND ACCESSORIES, VARIOUS TYPES AND MODELS BASED ON THE NEED OF THE CLIENT. (Gun metal, SS, brass, aluminium and cast iron)

FIRE VEHICLES:

There are different types of fire tenders which can be used in order to fight fire.

1. Water tender
2. Foam Tender
3. Combined foam tender
4. Multipurpose tender.

We manufacture **fire tender/ portable pump/trailer pump/ foam trolleys** based on the client requirements and on the chassis that is required and which is as per the IS standard.



PORTABLE PUMP



TRAILER PUMP



FOAM TROLLEY



FIRE FIGHTING TECHNOLOGY

We take this opportunity to inform that there is a technology in the world available to deal with such Fire accidents to save the life of the people. Fire can be created only with the chain reaction of Oxygen, required temperature (Ignite level of temperature) and material / fuel.

Currently our conventional method of fire fighting is been done by breaking the chain reaction (all works with pressure technology). To achieve this effect, respiration of the human-being O₂ affected on account of suffocation.



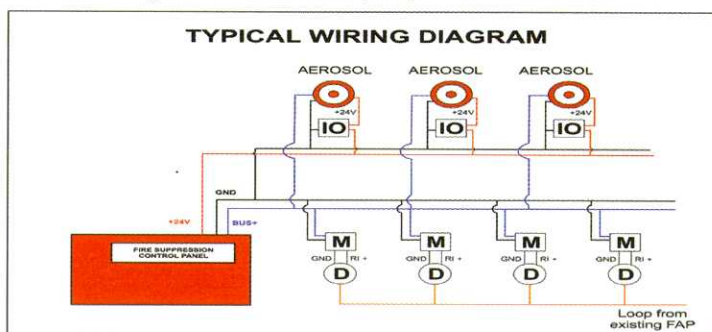
4G TECHNOLOGY IN FIRE PROTECTION

"AEROSOL" can work along with sprinkler, it meets the requirements of NBC 2005 and suitable for the places where water cannot be used. Such as electrical control room, electrical cabinets, server room, data processing room, battery room, telephonic exchange, basement area cable tunnels, Information Technology, Machinery compartments, Paint Room, Warehouse, Testing facility, Automobiles etc. In Hospitals there are many department where water can't be used, like radiology, consol, ICU, LINAC, X-Ray, ARTIUM etc.

The "AEROSOL" particles size less than 2.5 micron and can be used for a clean room applications such as Server Room, Data Processing, Battery Room, Closed Transformer Room and Control Rooms etc. It can be installed even in -70°C to +70°C temperature.

Aerosol Fire Fighting Equipments made out of Compressed Various chemical into paste, Mainly Potassium Nitrate, Calcium Carbonate and other Ingredient.

It can be used for A,B,C and F type fire which is approved by International certification. These products are coming under one of the approved replacement for Halon as per NBC 2005 as per para No. 6.5.2.3 and No. 6.5.2.4 of NBC Part-IV

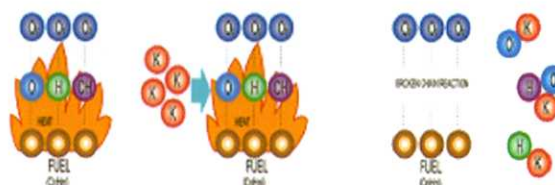


AEROSOL SUPPRESSION SYSTEM - 4G TECHNOLOGY IN FIRE

New Technology product of "Pressure less Aerosal Suppresion System" Stores as a solid compound and expelled as aerosol, suitable for all classes of fire

FREE RADICALS FIRE

- 1) Hydrogen (H)
- 2) Oxygen (O₂) and
- 3) Hydroxide (OH)



The new method of fighting Fire is converting free radicals into stable particles.

The new technology which only converts the free radical of hydroxide into stable particles of potassium hydroxide . The beauty of this new technology is that it does not absorb oxygen prevailing in the atmosphere whereby the people who are trapped inside the fire will be able to survive and fighting of the fire shall take place a matter of few seconds.

This innovative and patented technology is the ultimate Halon replacement (BCF), providing the greatest margin of safety and sustain ability on the market today and brings to you products which feature simplicity, lower installation cost and flexibility. It works volumetrically just like Halon and affects the combustion process.

WHERE IT CAN BE USED

Since most of the industry are having electrical control room, Electrical cabinets, Server room, Data processing room, battery room, telephonic exchange, basement area cable tunnels, Information Technology, Machinery compartments, Paint room, warehouse, Solvent Storage, Testing facility, Hospitals, Automobiles, Ships, Rail / Metro Rail, etc.

Activated in three ways :


A. Electrically Operated


B. Manually Operated


C. Thermally Operated


The Salient features of Condensed Aerosol Suppression products are :

- This product can be used for all class of Fire
- This can be used in Major Fire
- This product doesn't leave any residues after extinguishing the Fire
- The Shelf life of this product is 15 years
- Free from maintenance.
- This technology product put off the fire by converting the free radicals into stable particles
- This product has been approved by Govt. of Telangana vide G.O. No. 48 dt. 23.1.2015

| | | |
|--|---|-----------------------|
|  | SAG – AEROSOL SUPPRESSION SYSTEM | |
| | MODEL NO | SAG – (3-0.03) |
| | Capacity | 30 gms |
| | Fire Classes | A, B, C, D & E |
| | Operation temperature | ± 50° |
| | Starter type | Electrical / Thermal |
| | Area Coverage | 1 m ³ |

| | | |
|---|---|-----------------------|
|  | SAG – AEROSOL SUPPRESSION SYSTEM | |
| | MODEL NO | SAG – (3-0.05) |
| | Capacity | 50 gms |
| | Fire Classes | A, B, C, D & E |
| | Operation temperature | ± 50° |
| | Starter type | Electrical / Thermal |
| | Area Coverage | 1.6 m ³ |

| | | |
|---|---|----------------------|
|  | SAG – AEROSOL SUPPRESSION SYSTEM | |
| | MODEL NO | SAG – (3-0.3) |
| | Capacity | 300gms |
| | Fire Classes | A, B, C, D & E |
| | Operation temperature | ± 50° |
| | Starter type | Electrical / Thermal |
| | Area Coverage | 10 m ³ |

| | | |
|---|---|----------------------|
|  | SAG – AEROSOL SUPPRESSION SYSTEM | |
| | MODEL NO | SAG – (3-0.5) |
| | Capacity | 500gms |
| | Fire Classes | A, B, C, D & E |
| | Operation temperature | ± 50° |
| | Starter type | Electrical / Thermal |
| | Area Coverage | 17 m ³ |



SAG – AEROSOL SUPPRESSION SYSTEM

| | |
|-----------------------|--------------------|
| MODEL NO | SAG – (3-3) |
| Fire Classes | A, B, C, D & E |
| Operation temperature | ± 50° |
| Starter type | Manual / Thermal |
| Area Coverage | 60 m ³ |



SAG – AEROSOL SUPPRESSION SYSTEM

| | |
|-----------------------|----------------------|
| MODEL NO | SAG – (3-1) |
| Capacity | 1 Kg |
| Fire Classes | A, B, C, D & E |
| Operation temperature | ± 50° |
| Starter type | Electrical / Thermal |
| Area Coverage | 20 m ³ |



SAG – AEROSOL SUPPRESSION SYSTEM

| | |
|-----------------------|----------------------|
| MODEL NO | SAG – (3-2) |
| Capacity | 2 Kg |
| Fire Classes | A, B, C, D & E |
| Operation temperature | ± 50° |
| Starter type | Electrical / Thermal |
| Area Coverage | 40 m ³ |



SAG – AEROSOL SUPPRESSION SYSTEM

| | |
|-----------------------|----------------------|
| MODEL NO | SAG – (3-4) |
| Capacity | 4 Kg |
| Fire Classes | A, B, C, D & E |
| Operation temperature | ± 50° |
| Starter type | Electrical / Thermal |
| Area Coverage | 80 m ³ |



SAG – AEROSOL SUPPRESSION SYSTEM

| | |
|-----------------------|----------------------|
| MODEL NO | SAG – (3-7) |
| Capacity | 7 Kg |
| Fire Classes | A, B, C, D & E |
| Operation temperature | ± 50° |
| Starter type | Electrical / Thermal |
| Area Coverage | 140 m ³ |

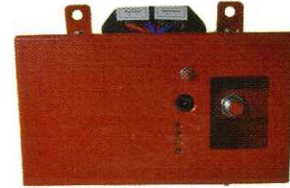


SAG – AEROSOL SUPPRESSION SYSTEM TRANSFORMER PROTECTION

| | |
|-----------------------|-------------------|
| MODEL NO | SAG (3-4-1) |
| Fire Classes | 4 Kg |
| Operation temperature | ± 50° |
| Starter type | Thermal |
| Area Coverage | 80 m ³ |



CONTROL PANEL



CONTROL SWITCH

CONFINED SPACE ENTRY SYSTEM/ MANUAL MOBILE FLOOR CRANE

TECHNICAL SPECIFICATION :

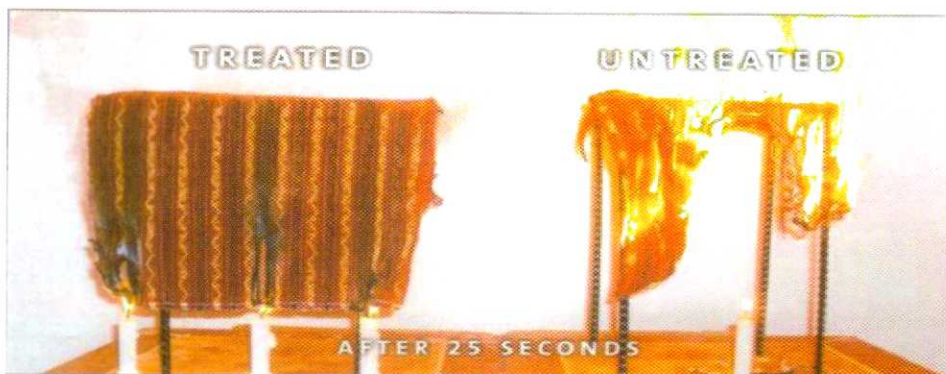


| Sr.No | Parameter | Specification |
|-------|----------------------------------|-------------------------------------|
| 1. | Number of persons to use | Two |
| 2. | Max design weight of each person | 150 Kg |
| 3. | Lower point of rescue | 10m below base |
| 4. | Base type | Expandable and Adjustable |
| 5. | Height | Expandable and Adjustable |
| 6. | Width at base | Min 2.5 m and Max 4.25 m |
| 7. | Min and Max height | Min 2.2 m and Max 2.74 m |
| 8. | Point of suspension distance | 0.7 to 1.0 m |
| 9. | Material of construction | Aluminium / Composite material |
| 10. | Finishing | Powder coated |
| 11. | Harness | Two suitable harness to be included |
| 12. | Total weight of the system | 120 kg ± 10% |
| 13. | Storage in dismantled condition | Light weight box with wheels |

Specifications

| Product Code | | FIE-141 |
|-----------------|------|-----------------|
| Rated Capacity | tons | 0.5 to 5.0 |
| Min Hook Height | mm | 500 |
| Max Hook Height | mm | 3100 to 5000 |
| Overall Length | mm | 1920 |
| Overall Height | mm | 1900 |
| Overall Width | mm | 1150 (in to in) |
| Wheel | mm | Ø180 x 50 |
| Self Weight | kg | 300 |

FIRE RETARDANT PAINT



Flame Shield/Fudnflam/Flame Retardant Paint (Intumescent):

It is used to FR all kinds of fabric be it 100% cotton or 100% polyester. Normally used for high quality fabric. Covers about 110 to 120 sq. ft. in one litre (fabric of 275 – 325 gsm.). This chemical is also used to FR wood, paper, foam etc. Thumb rule is any substrate that can absorb liquid chemical can be flame retarded. Is used to FR coarse fabric e.g. tents, and can FR only 100% cotton, no polyester. Has been used to FR tents for pandals of the meetings It is enamel paint, can be applied to wood, steel, cable etc. and comes in base white color. You may add any color that you wish if you want this as final coat and it will not impact the FR properties in any way. Alternatively and preferably you may apply two coats of this paint as base coat (for 30 to 60 minutes rating) and on top of that put whatever color and finish paint you wish. We also have a 'FR Paint Additive' that can be added to any normal solvent based paint to convert the same to Flame Retardant.

MULTIPURPOSE FIRE FIGHTING MOTOR BIKE



- *Operation time-15 minutes
- *Quick control over fire at incipient stage
- *Minimum operational cost
- *No external expellant required
- *Capable to overcome all classes of fire
- *Water Mist Technology
- *Economic and eco friendly
- *GPS for short route and location



SEAARA

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