V-SAFE®

by VARIA FIRETECH

V WANT YOU SAFE





Portable & Wheeled Fire Extinguishers



Compressed Air Foam Systems (CAFS)



Fire Suppression Systems



Fire Fighting Chemicals Foam & Powder

VARIA FIRETECH INDUSTRIES

INDEX

About Our Company 03

Manufacturing Infrastructure 06

How to Choose & Use of An Extinguisher 07

Product Attributes & Certifications 08

First Responder Bike 09

Portable CompShield Fire Extinguisher 10

Compressed Air Foam Systems (CAFS) 12

Stored Pressure Type Fire Extinguishers 15

ABC Dry Powder Fire Extinguishers | BC Dry Powder Fire Extinguishers | Foam Base Fire Extinguishers | Water Fire Extinguishers | Watermist Fire Extinguishers | Clean Agent Fire Extinguishers

Cartridge Pressure Type Fire Extinguishers 21

ABC Dry Powder Fire Extinguishers | BC Dry Powder Fire Extinguishers | Foam Base Fire Extinguishers | Water Fire Extinguishers

High Pressure Type (CO_2) Fire Extinguishers 25

Wheeled Fire Extinguishers 26

Carbon Dioxide Fire Extinguishers | Dry Powder Fire Extinguishers | Foam Base Fire Extinguishers | Water Fire Extinguishers

Special Class Fire Extinguishers 30

Wet Chemical Fire Extinguishers | Li-ion Fire Extinguishers

Modular Fire Extinguishers 32

Dry Powder Fire Extinguishers | Clean Agent Fire Extinguishers

Class -D Fire Extinguishers 34

Dry Powder Filling & Extinguisher Refilling Units 35

Tubing Gas Suppression System 36

Low Pressure Direct System | Low Pressure Indirect System | High Pressure Direct System | High Pressure Indirect System

Flooding & Modular Suppression Systems 37

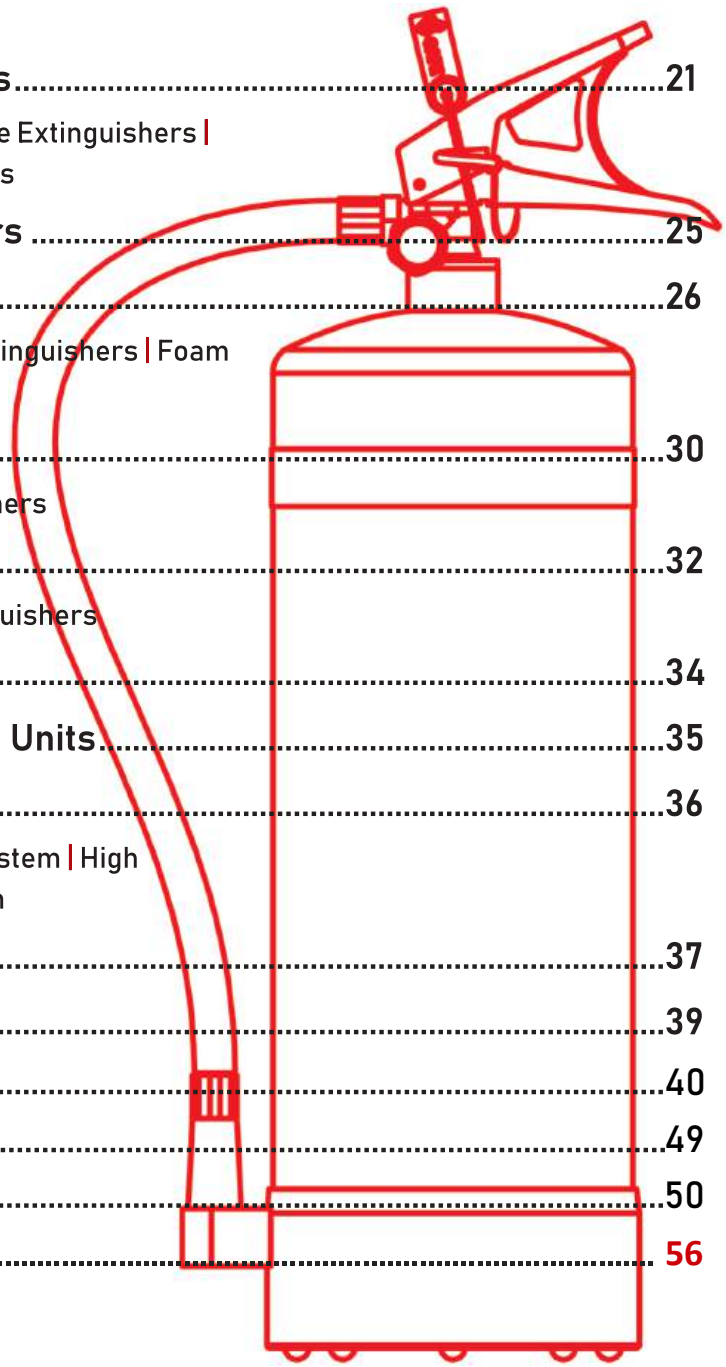
Miniature Clean Agent Systems 39

Fire Fighting Foam Chemicals 40

Dry Chemical Powders 49

Clientels 50

SOS Toolkit 56



About Our Company

V-SAFE®
by VARIA FIRETECH
V WANT YOU SAFE

At Varia FireTech Industries, We exemplify ourselves as "V WANT YOU SAFE". For achieving this aim and objective the promoters of Varia FireTech, incepted the company in the year 2020 as a new venture. Since then we have grown from merely liking our customers to caring for them. The customer centric approach motivates us in the process of research & development resulting in the production of refined products at every interval.

Varia FireTech Industries is the sole manufacturer in India where the process of manufacturing fire extinguisher starts from blanking of sheet metal coil to the final assembly of the extinguisher. Custom-built machinery employed by us in the manufacturing process facilitates the desired outcome of the product that meets the end-use objectives to the best possible level.

S&P®
S&P Safety Products
Chemist of Fire Fighting

An ISO 9001:2015 certified S & P Safety Products Pvt.Ltd. is a leading manufacturer of foam concentrates in India since 2001. Known for our in-house State-of-the-Art testing facility that conducts in depth physical and chemical analysis of foam Our Company is based at Jamnagar where all the R&D and production is carried out. A lot of emphasis is laid on research and development of new compounds to bring up more powerful and better products and agents enabling firefighting without compromising on the environment compatibility component

Our Fire Fighting Foam Liquid Concentrate fights both Hydrocarbon Fuel Fire & Polar Solvent Fuel Fire. They cater to clients across industries world-wide. It is in their trust on our products that we evolve and create new products while excelling in quality. We appreciate loyalty and trust of our customers.

GROUP OF COMPANIES

CARBONIC INDUSTRIES

VARIA CARBONIC INDUSTRIES

VTC

VARIA TRADING COMPANY

CORE PHILOSOPHY

Purpose

"V WANT YOU SAFE"

The crux of Varia FireTech Industries encompasses a set of guiding principles and beliefs that shape its mission, values, and approach to ensuring safety from fire hazards

Vision

To set the benchmark for excellence in preventing and mitigating Fire Risks

Mission

Providing finest fire safety solutions backed by excellence, innovation and commitment

Core Values

Customer centric approach for innovative, sustainable and safer solutions promising integrity

Brand Promise

To deliver qualitative fire extinguishers at competitive price



OUR JOURNEY

2020 — S&P Safety Products Pvt Ltd
Acquired UL Listing for Fire Fighting Foam Chemicals

2015 — S&P Safety Products Pvt Ltd
Acquired UL Listing for Fire Fighting Foam Chemicals

2010 — Varia Trading Company
Started Sales and Supplies of Safety Equipments

2001 — S&P Safety Products Pvt Ltd
Started Manufacturing of Fire Fighting Chemicals

1982 — Carbonic Industries
Manufacturing of CO2 Gas



2022 — Varia Firetech Ind.
Started Manufacturing of Fire Extinguishers

2015 — Carbonic Industries
Started Plant Facility at Ahmedabad

2012 — Carbonic Industries
Started Plant Facility at Mumbai

2005 — Carbonic Industries
Started Plant Facility at Gandhidham

1999 — Varia Carbonic Ind.
Started Plant Facility at Rajkot

OUR TEAM

Support Team

A dedicated support team at VFT provides its customers the basic knowledge of fire, fire extinguishers & fire risks along with the best solutions. The team has a combined experience of 100+ years in fire technology.

Design Team

The products offered by VFT are designed and developed by an in-house design team consisting of engineers who work in tandem with customers to understand their needs and assess the risk followed to provide the best solution conforming to international, national and state fire codes.

Supply-Chain Management Team

Members of this team have the knack of coordinating with multiple points of contacts so as to procure orders, track production and supply the orders to the customer

Infrastructure

Varia FireTech known for its turnkey production facility of fire extinguishers is passionate about quality of every spare part that goes into the making of the extinguishers. In our endeavour to maintain quality standards Varia FireTech manufactures all the parts of the extinguisher body in-house at our factory premises in Jamnagar that is spread across 70,000 sq. feet of land area.







While maintaining the desired precision and accuracy our company produces 30,000 units per month. To ensure quality the extinguishers are subject to extensive processes while under production and exhaustive tests after the production before being dispatched to our customers.

Tool Room
Product Development

Blanking & Deep Drawing
Draws Flawless Body

Advanced MIG Welding
Strong & Smooth Seam

Polishing & Phosphating
Anti Corrosion Treatment

Conveyorized Coating
PVC & PP

Assembly & Packaging
Semi Automatic

In-house testing facilities for extinguishers as well as extinguishing media to ensure quality of the each product.

Fire Testing Facilities
All Classes

Salt Spray Apparatus

Vibration Apparatus

Pressure Cycle Apparatus

Crushing Apparatus

>> and many more...



How to Choose

Varia FireTech Industries offers a wide range of products including Portable & Wheeled Fire Extinguishers, both as per standard codes and as per custom-requirements of users.

- V-SAFE portable fire extinguishers are intended to use at the early stages of fire and protect the premises from large damage.
- V-SAFE wheeled fire extinguisher has an added feature of wheels which makes it extremely convenient for a single person to transport and use it to extinguish fire.
- Special products are intended to use on particular types of hazards.



Locating the extinguisher at the hazards is not advisable. According to NFPA-10, user has to consult for recommended extinguisher types, placements and travel distance from the hazards. Our technical team is professionally equipped to help you evaluate and implement these recommendations. Everyone should be familiar with below pictograms to identify the type of fire and to choose extinguisher accordingly.

While going in for a fire extinguisher, one should see the information about the type of fire it can battle out, its relative performance of extinguishing the various type of fires, its bulk range and most importantly its fire rating.

Types of Fire:

Class of Fire	Applications	Symbols
Class A	Organic combustible solids like wood, paper, rubber, plastics etc.	
Class B	Flammable liquids and liquefiable solids like oils, paints, tar etc.	
Class C	Flammable gases under pressure including liquefied gases like oxygen, acetylene, CNG, LPG etc.	
Class D	Fires involving combustible metals such as magnesium, aluminium, zinc, sodium, potassium etc.	
Class E	Fires involving in live electrical equipment	
Class F	Fires in cooking appliance that involve combustible cooking media	

How to Use

All V-SAFE extinguishers are equipped with a detailed 'Product Manual' containing valuable information about installation, usage, inspection & maintenance aspects. The same is also mentioned on the stickers of the extinguishers. For effective & appropriate usage of an extinguisher, every intended operator should be completely familiar with the instructions on extinguisher that they might be required to use.

Product Attributes



CE Approved Valve
Brass

Pressure Gauge
Diaphragm

External Coating
UV Resistant

Braided Hose
Crack Resistant

MOC for Body
CRCA MS/ Austenitic SS

36 MONTH WARRANTY

Internal Coating
PP/PVC

Bottom cover
HDPE

Sheet Thickness
Higher Burst Pressure

Confirms to BIS
IS 15683:2018 / IS 16018:2012

UL Approved Agent

Safe Technology
User Friendly

Maximum Fire Rating
In-Class

Helium Leak Detection

Certifications

First Responder Bike

V-SAFE® by VARIA FIRETECH

Rapid Response | Compact | Efficient



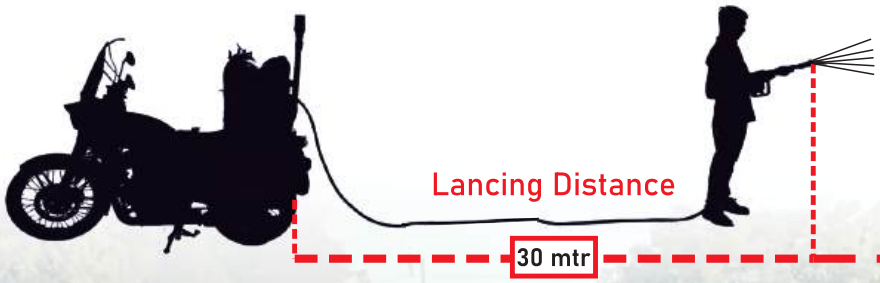
Features

- Rapid First Responder Bike for Narrow Lanes, Congested and Hard to Reach Areas
- Can be operated by a single trained fire fighter
- Discharge time more than 120 Seconds
- Dual Extinguishing Capabilities with CAFS and Composite Fire Extinguishers
- Integrated Public Awareness and Siren Control System with Mic

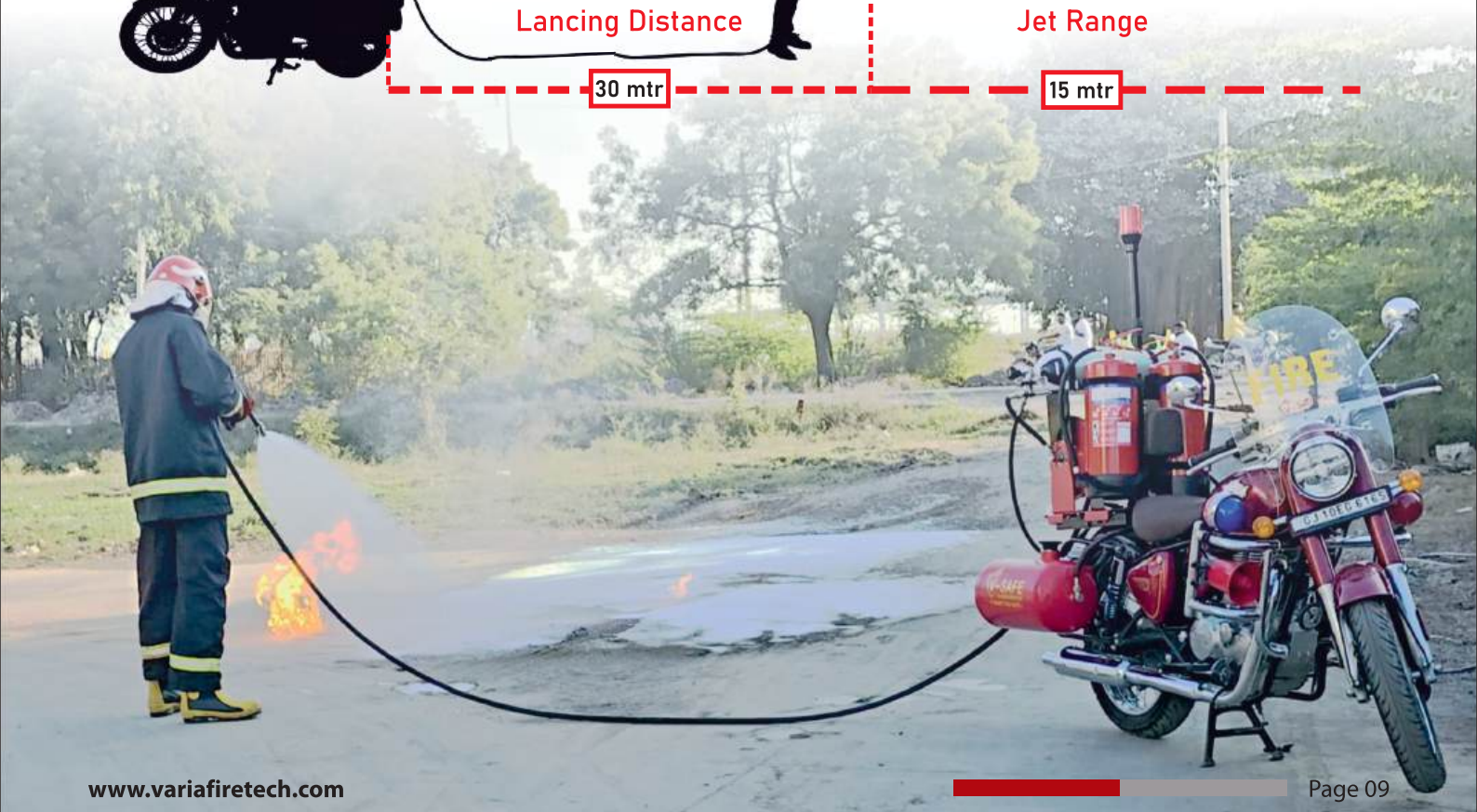
Applicable on All Type of Fire



Large Coverage Area



Your First Line of Rescue
"V-SAFE Fire Bike"



V-SAFE by VARIA FIRETECH

Stored Pressure Type *Portable* **CompShield** Fire Extinguishers

V-SAFE composite cylinders are manufactured using a high-strength polymer liner reinforced with Kevlar fiber wrapping ensuring:

- Excellent pressure retention
- Superior burst pressure safety margins
- Resistance to rust, dents, and surface degradation

With V-SAFE Composite Fire Extinguishers, you invest in a safer, smarter, and more durable fire protection solution — engineered for today's demanding environments and tomorrow's safety needs.



Manufacturing Faults and Workmanship Guarantee

Advantages

Light Weight | Non-Magnegtic | High Impact Resistance | Maintenance Free | Non-Conductive | Long Shelf Life

Stronger | Lighter | Safer



Stored Pressure Type
Portable CompShield Fire Extinguishers

V-SAFE by VARIA FIRETECH



Confirms to BIS
IS 15683:2018

Light Weight
20% Lighter

Corrosion Free

15 Years
Higher Shelf Life

Maximum Fire Rating
6A:233B

Helium Leak Detection
On Demand

UL Approved MAP Powder
On Demand

EPDM Hose
Crack Resistant

A B C

CE IST EN

Features

- Stored pressure type, hence always ready for action
- Easy to operate & Maintenance Free
- Cylinders with hydrostatic test as per standard
- UV resistant
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Temp. Range	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
2 kg	VCMPA-02	MAP 90%	3.3	-30°C/+60°C	15	2A:55B	14	3
6 kg	VCMPA-06	MAP 90%	8.0	-30°C/+60°C	15	6A:183B	24	5
9 kg	VCMPA-09	MAP 90%	11.5	-30°C/+60°C	15	6A:233B	32	6
9 kg	VCMPD-09	D-TYPE	12.5	-30°C/+60°C	15	NA	35	2
6 ltr	VCMPM-06	AFFF 6%	8.0	+5°C/+60°C	15	3A:89B	40	6
9 ltr	VCMPM-09	AFFF 6%	11.5	+5°C/+60°C	15	4A:233B	55	6
2 ltr	VCMPL-02	AVD	3.3	+5°C/+60°C	15	5A	28	2
6 ltr	VCMPL-06	AVD	8.0	+5°C/+60°C	15	13A	70	2
9 ltr	VCMPL-09	AVD	11.5	+5°C/+60°C	15	13A	120	2

V-SAFE® by VARIA FIRETECH

High Pressure Watermist System
Compressed **Air Foam** System (CAFS)

V-SAFE High Pressure CAFS is a compact, lightweight, and portable fire suppression system designed for rapid first response firefighting. Worn comfortably on the operator's back, the system combines high pressure water mist technology with compressed air foam (CAFS) to deliver powerful fire suppression in locations where vehicles or bulky equipment cannot reach.



Features

- Ergonomic Backpack Configuration
- Fast knockdown at early fire stages
- Class A, B & E fires compatible
- Fire Rating 55A:233B & 1000V
- Environment Friendly
- Lightweight and Easy to Operate
- Discharge Range of up to 20 meters
- Discharge time approx 33 seconds



Light Weight



Non-Magnegtic



Non-Conductive



High Impact Resistance



Maintenance Free



Long Shelf Life

Capacity

9 Ltr

10 Ltr

Low Pressure Water Mist System
Compressed **Air Foam** System (CAFS)



V-Safe designed low pressure compressed air foam system (CAFs) is a pre-charged extinguishing equipment featured with specially designed nozzle that is capable of delivering water droplets in the range of microns. The reduced size of water droplets help in extinguishing fire in multiple ways: Cooling effect by evaporation; Suffocation of fuel and oxygen thereby separating reaction partners; Deep penetration inside the flammable material. System is designed for less water consumption so as to reduce impact on environment.

Features

- Stainless steel body
- Compact and light weight design for easy handling & operation
- Highest fire rating in class
- Factory tested for high electrical conductivity test
- PESO Approved Breathing air bottle options available in MS and composite
- Higher efficiency than ordinary mist system
- Special nozzle: Facilitates foam release in both forms - Jet and Fog

Model Codes & Technical Specifications

Capacity	Model	Agent	Propellant	Gross Weight (kg)	Working Pressure	Hose Length	Fire Rating	Operating Time	Max. Discharge Range
10 ltr	VCAFSPQ-10	AFFF	2l/300 BAR Compressed Air	24	Upto 15 BAR	2 m	55A:233B	35 Sec (Wet)/ 55 Sec(Dry)	12 m (Jet)/ 8 m (Fog)
50 ltr	VCAFSPQ-50	AFFF	6l/300 BAR Compressed Air	110	Upto 15 BAR	10 m	55A:IVB*	120 Sec (Wet)/ 240 Sec(Dry)	15 m (Jet)/ 8 m (Fog)
250 ltr	VCAFSPQ-250	AFFF	6l/300 BAR Compressed Air	350	Upto 15 BAR	25 m	55A:IVB*	220 Sec (Wet)/ 420 Sec(Dry)	20 m (Jet)/ 12 m (Fog)

*Certified from NABL accredited lab

V-SAFE® by VARIA FIRETECH

Low Pressure Water Mist System
Compressed Air Foam System (CAFS)

Features

- Class A, B & E fires compatible
- Atomisation of mist upto 50 microns
- Modes of operation: Mist & Jet
  Stainless Steel Body
- Minimum 12 meters lancing distance
- Fire rating from 55A:233B to 55A:IVB, 1000 V
- Certified From NABL accredited Lab as per DIN EN 1866-1:2007
- Environment Friendly
- Easy to refill
- Works On Large Fires with Maximum Efficiency



Capacity

250 ltr



Stored Pressure Type
Portable Dry Powder Fire Extinguishers

V-SAFE by VARIA FIRETECH



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
6A:233B

Helium Leak Detection
On Demand

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

UL Approved MAP Powder
On Demand

PP Internal & External Coating
Anti-Corrosive Treatment

A B C

Features

- Stored pressure type, hence always ready for action
- Easy to operate & economical to maintain
- Dependable drawn cylinders with hydrostatic test as per standard
- UV resistant coating
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from -30° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
1 kg	VFAPQ-01-50	MAP 50%	2.2	15	1A:21B	9	2
	VFAPQ-01-90	MAP 90%			1A:34B	9	2
2 kg	VFAPQ-02-50	MAP 50%	3.7	15	2A:34B	14	2.5
	VFAPQ-02-90	MAP 90%			2A:55B	14	2.5
4 kg	VFAPQ-04-50	MAP 50%	7.1	15	3A:89B	18	3
	VFAPQ-04-90	MAP 90%			4A:144B	18	3
6 kg	VFAPQ-06-50	MAP 50%	9.6	15	4A:144B	24	5
	VFAPQ-06-90	MAP 90%			6A:183B	24	5
9 kg	VFAPQ-09-50	MAP 50%	13.9	15	6A:183B	31	6
	VFAPQ-09-90	MAP 90%			6A:233B	31	6

V-SAFE® by VARIA FIRETECH

Stored Pressure Type *Portable* Dry Powder Fire Extinguishers



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
233B

Helium Leak Detection
On Demand

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

ISI Approved BC Powder
Min. 90%

PP Internal & External Coating
Anti-Corrosive Treatment



Features

- Stored pressure type, hence always ready for action
- Easy to operate & economical to maintain
- Dependable drawn cylinders with hydrostatic test as per standard
- UV resistant coating
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from -30° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
4 kg	VFBPQ-04-S	SBC	7.1	15	144B	18	3
	VFBPQ-04-P	PBC			144B	18	3
6 kg	VFBPQ-06-S	SBC	9.6	15	183B	24	5
	VFBPQ-06-P	PBC			183B	24	5
9 kg	VFBPQ-09-S	SBC	13.9	15	233B	31	6
	VFBPQ-09-P	PBC			233B	31	6

Stored Pressure Type
Portable **Foam Base** Fire Extinguishers

V-SAFE by VARIA FIRETECH



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
4A:233B

Helium Leak Detection
On Demand

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

UL Approved Foam Chemical
On Demand

PVC Internal & PP External Coating
Anti-Corrosive Treatment



Features

- Stored pressure type, hence always ready for action
- Easy to operate & economical to maintain
- Dependable drawn cylinders with hydrostatic test as per standard
- Air aspirated nozzle
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from +5° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	MOC	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
6 ltr	VFMPQ-06-03/06	MS CRCA Grade 4	AFFF 3%/6%	9.5	15	3A:89B*	21	5
	VFMPQ-06-13/16		AR AFFF 3/3%/3/6%					
9 ltr	VFMPQ-09-03/06	MS CRCA Grade 4	AFFF 3%/6%	13.9	15	4A:233B	38	6
	VFMPQ-09-13/16		AR AFFF 3/3%/3/6%					
6 ltr	VFMSSPQ-06-03/06	SS 304	AFFF 3%/6%	8.8	15	3A:89B*	21	5
	VFMSSPQ-06-13/16		AR AFFF 3/3%/3/6%					
9 ltr	VFMSSPQ-09-03/06	SS 304	AFFF 3%/6%	12.6	15	4A:233B	38	6
	VFMSSPQ-09-13/16		AR AFFF 3/3%/3/6%					

* Factory tested

Stored Pressure Type *Portable* **Water** Fire Extinguishers



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
3A

Helium Leak Detection
On Demand

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

PVC Inner Liner
Inside Anti-Corrosive Treatment

PP External Coating
Anti-Corrosive Treatment



Features

- Stored pressure type, hence always ready for action
- Easy to operate & economical to maintain
- Dependable drawn cylinders with hydrostatic test as per standard
- UV resistant coating
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from +5° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	MOC	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
6 ltr	VFWPQ-06	MS CRCA Grade 4	DM Water	9.6	15	2A*	21	5
9 ltr	VFWPQ-09		DM Water	13.9	15	3A	38	6
6 ltr	VFWSSPQ-06	SS 304	DM Water	8.8	15	2A*	21	5
9 ltr	VFWSSPQ-09		DM Water	12.6	15	3A	38	6

* Factory tested

Stored Pressure Type
Portable **Watermist** Fire Extinguishers

V-SAFE® by VARIA FIRETECH



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
3A:183B:75F

Helium Leak Detection
On Demand

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

UL Approved Foam Additives
On Demand

PVC Internal & PP External Coating
Anti-Corrosive Treatment

A B F

CE IST

Features

- Stored pressure type, hence always ready for action
- Easy to operate & economical to maintain
- Specially designed to generate a fine mist of 40-60 micron molecules
- UV resistant coating
- The fine spray from the misting nozzle provides safety from electrical shock
- Wide operating temperature range from +5° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	MOC	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
2 ltr	VFWMPQ-02	MS CRCA Grade 4	Water with Foam Additives	4.2	15	1A:34B:5F	15	3
3 ltr	VFWMPQ-03			5.7	15	1A:55B:15F	18	3.5
6 ltr	VFWMPQ-06			10.9	15	2A:113B:25F	32	4
9 ltr	VFWMPQ-09			14.5	15	3A:183B:75F	44	4
2 ltr	VFWMSSPQ-02	SS 304	Water with Foam Additives	3.7	15	1A:34B:5F	15	3
3 ltr	VFWMSSPQ-03			5.1	15	1A:55B:15F	18	3.5
6 ltr	VFWMSSPQ-06			10.1	15	2A:113B:25F	32	4
9 ltr	VFWMSSPQ-09			13.2	15	3A:183B:75F	44	4

V-SAFE by VARIA FIRETECH

Stored Pressure Type *Portable* Clean Agent Fire Extinguishers



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
4A:233B

Helium Leak Detection
On Demand

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

UL Approved Clean Agent

PVC Internal & PP External Coating
Anti-Corrosive Treatment

A B C

Features

- Stored pressure type, hence always ready for action
- Easy to operate & recharge
- Dependable drawn cylinders with hydrostatic test as per standard
- UV resistant coating
- Ideal for protecting electronic equipment as the clean agent leaves no residue
- Wide operating temperature range from -30° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	MOC	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
2 kg	VFHPQ-02	MS CRCA Grade 4	HFC-236	4.1	10	1A:21B	9	3
4 kg	VFHPQ-04		HFC-236	7.1	10	2A:34B	14	3.5
6 kg	VFHPQ-06		HFC-236	9.6	10	2A:55B	22	4
2 kg	VFHSSPQ-02	SS 304	HFC-236	3.6	10	1A:21B	9	3
4 kg	VFHSSPQ-02		HFC-236	6.5	10	2A:34B	14	3.5
6 kg	VFHSSPQ-02		HFC-236	8.8	10	2A:55B	22	4

Cartridge Pressure Type
Portable Dry Powder Fire Extinguishers

V-SAFE by VARIA FIRETECH



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
6A:233B

Safe Technology

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

UL Approved MAP Powder
On Demand

PP Internal & External Coating
Anti-Corrosive Treatment

A B C

Features

- CO_2 gas cartridge confirms to IS:4947
- Easy to operate and refill
- Economical to maintain
- Dependable drawn cylinders with hydrostatic test as per standard
- UV resistant coating
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from -30° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Cartridge	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
4 kg	VFCPQ-04-50	MAP 50%	7.8	120 gm	15	3A:89B	18	3
	VFCPQ-04-90	MAP 90%				4A:144B	18	3
6 kg	VFCPQ-06-50	MAP 50%	11.1	120 gm	15	4A:144B	24	5
	VFCPQ-06-90	MAP 90%				6A:183B	24	5
9 kg	VFCPQ-09-50	MAP 50%	15.9	200 gm	15	6A:183B	31	6
	VFCPQ-09-90	MAP 90%				6A:233B	31	6

V-SAFE by VARIA FIRETECH

Cartridge Pressure Type *Portable* Dry Powder Fire Extinguishers



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
6A:233B

Safe Technology

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

ISI Approved BC Powder
Min. 90%

PP Internal & External Coating
Anti-Corrosive Treatment



Features

- CO_2 gas cartridge confirms to IS:4947
- Easy to operate and refill
- Economical to maintain
- Dependable drawn cylinders with hydrostatic test as per standard
- UV resistant coating
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from -30° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Cartridge	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
4 kg	VFCPQ-04-S	SBC	7.8	120 gm	15	144B	18	3
	VFCPQ-04-P	PBC				144B	18	3
6 kg	VFCPQ-06-S	SBC	11.1	120 gm	15	183B	24	5
	VFCPQ-06-P	PBC				183B	24	5
9 kg	VFCPQ-09-S	SBC	15.9	200 gm	15	233B	31	6
	VFCPQ-09-P	PBC				233B	31	6

Cartridge Pressure Type
Portable **Foam Base** Fire Extinguishers

V-SAFE by VARIA FIRETECH



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
6A:233B

Safe Technology

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

UL Approved Foam Chemical
On Demand

PVC Internal & PP External Coating
Anti-Corrosive Treatment



Features

- CO_2 gas cartridge confirms to IS:4947
- Easy to operate and refill
- Economical to maintain
- Dependable drawn cylinders with hydrostatic test as per standard
- Air aspirated nozzle
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from +5° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Cartridge	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
6 ltr	VFMCPQ-06-03	AFFF 3%	10.0	60 gm	15	2A:34B*	22	4
	VFMCPQ-06-06	AFFF 6%						
	VFMCPQ-06-13	AR AFFF 3/3%						
	VFMCPQ-06-16	AR AFFF 3/6%						
9 ltr	VFMCPQ-09-03	AFFF 3%	15.6	60 gm	15	4A:233B	38	6
	VFMCPQ-09-06	AFFF 6%						
	VFMCPQ-09-13	AR AFFF 3/3%						
	VFMCPQ-09-16	AR AFFF 3/6%						

* Factory tested

Cartridge Pressure Type *Portable* **Water** Fire Extinguishers



Confirms to BIS
IS 15683:2018

Sheet Thickness
1.8 mm

Maximum Fire Rating
3A

Safe Technology

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

PVC Inner Liner
Inside Anti-Corrosive Treatment

PP External Coating
Anti-Corrosive Treatment



Features

- CO_2 gas cartridge confirms to IS:4947
- Easy to operate and refill
- Economical to maintain
- Dependable drawn cylinders with hydrostatic test as per standard
- Air aspirated nozzle
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from +5° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
6 ltr	VFWCPQ-06	Water	11.1	15	2A*	21	5
9 ltr	VFWCPQ-09	Water	15.6	15	3A	38	6

* Factory tested

Stored Pressure Type

Portable Carbon Dioxide Fire Extinguishers



Confirms to BIS
IS 15683:2018

PESO/CCOE Approved
Confirms to IS:7285

ISI Approved Valve
Squeeze Grip & Wheel Type

High Pressure Extinguisher

Maximum Fire Rating
55B

EPDM Hose
Crack Resistant

Electrics Fire Friendly

Enamel Painted & Powder Coated Body



Features

- Stored pressure type, hence always ready for action
- Easy to operate & economical to maintain
- Electrical non conductive agent & leaves no residue
- Frost free horn that cause no freeze burns
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from -30° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
2 kg	VFCPQ-02	CO_2	8.2	60	21B	9	2
3 kg	VFCPQ-03	CO_2	12.5	60	34B	11	2
4.5 kg	VFCPQ-4.5	CO_2	17.0	60	55B	12	2
4.5 kg	VFCPQ-4.5-AL	CO_2	12.5	60	55B	12	2

V-SAFE® by VARIA FIRETECH

Stored Pressure Type *Wheeled* Carbon Dioxide Fire Extinguishers



- **Confirms to BIS** — IS 16018:2012
- **PESO/CCOE Approved** — Confirms to IS:7285
- **ISI Approved Valve** — Wheel Type
- **High Pressure Extinguisher**
- **Maximum Fire Rating** — 89B
- **Braided Hose**
- **Electrics Fire Friendly**
- **Enamel Painted Body**



Features

- Stored pressure type, hence always ready for action
- Easy to operate & economical to maintain
- Electrical non conductive agent & leaves no residue
- Frost free horn that cause no freeze burns
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from -30° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
6.5 kg	VFCPQ-6.5	CO_2	24	60	55B	20	3
9 kg	VFCPQ-9	CO_2	35	60	55B	30	3
22.5 kg	VFCPQ-22.5	CO_2	85	60	89B	47	4

Cartridge Pressure Type *Wheeled* **Dry Powder** Fire Extinguishers

V-SAFE® by VARIA FIRETECH



Confirms to BIS
IS 16018:2012

Sheet Thickness
Up to 6 mm

Maximum Fire Rating
20A:233B

PESO/CCOE Approved
Gas Cylinder

Spring type Cap
Brass

Braided Hose
With SS Protection Spring

UL Approved MAP Powder
On Demand

PP Internal & External Coating
Anti-Corrosive Treatment

A B C

CE IST

Features

- Auto safety release mechanism
- Easy to move and operate
- Economical to maintain
- Welded with advanced MIG welding station & hydrostatic test as per standard
- UV resistant coating
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from -30° C to +55° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Working Pressure (Bar)	CO_2 Gas Capacity	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
25 kg	VFCPQ-25-50	MAP 50%	84	14	1 kg	20A:233B	25	6
	VFCPQ-25-90	MAP 90%						
	VFCPQ-25-S	SBC				233B		
	VFCPQ-25-P	PBC						
50 kg	VFCPQ-50-50	MAP 50%	120	14	2 kg	20A:233B	40	8
	VFCPQ-50-90	MAP 90%						
	VFCPQ-50-S	SBC				233B		
	VFCPQ-50-P	PBC						
75 kg	VFCPQ-75-50	MAP 50%	150	14	2 kg	20A:233B	50	10
	VFCPQ-75-90	MAP 90%						
	VFCPQ-75-S	SBC				233B		
	VFCPQ-75-P	PBC						

Cartridge Pressure Type *Wheeled* **Foam Base** Fire Extinguishers



Confirms to BIS
IS 16018:2012

Sheet Thickness
3.15 mm

Maximum Fire Rating
20A:233B

ISI Approved
Gas Cartridge

Plunger type Cap
Brass

Braided Hose
With SS Protection Spring

UL Approved Foam Chemical
On Demand

PP Internal & External Coating
Anti-Corrosive Treatment

A B C

Features

- CO_2 gas cartridge confirms to IS:4947
- Easy to move and operate
- Economical to maintain
- Welded with advanced MIG welding station & hydrostatic test as per standard
- Air aspirated aluminium nozzle
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from +5° C to +55° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Cartridge	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
45 ltr	VFMCPQ-45-03	AFFF 3%	85	300 gm	14	20A:233B	30	9
	VFMCPQ-45-06	AFFF 6%						
	VFMCPQ-45-13	AR AFFF 3/6%						
	VFMCPQ-45-16	AR AFFF 6/6%						
60 ltr	VFMCPQ-60-03	AFFF 3%	108	300 gm	14	20A:233B	35	9
	VFMCPQ-60-06	AFFF 6%						
	VFMCPQ-60-13	AR AFFF 3/6%						
	VFMCPQ-60-16	AR AFFF 6/6%						

Cartridge Pressure Type
Wheeled **Water** Fire Extinguishers



Confirms to BIS
IS 16018:2012

Sheet Thickness
3.15 mm

Maximum Fire Rating
20A

ISI Approved
Gas Cartridge

Plunger type Cap
Brass

Braided Hose
With SS Protection Spring

Safe Technology

PP Internal & External Coating
Anti-Corrosive Treatment



Features

- CO_2 gas cartridge confirms to IS:4947
- Easy to move and operate
- Economical to maintain
- Welded with advanced MIG welding station & hydrostatic test as per standard
- Air aspirated aluminum nozzle
- Controllable discharge mechanism with maximum retention of charge capacity
- Wide operating temperature range from +5° C to +55° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Cartridge	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)	Bulk Range (mtr)
45 ltr	VFWCPQ-45	DM Water	85	300 gm	14	20A	30	9
60 ltr	VFWCPQ-60	DM Water	108	300 gm	14	20A	35	9

V-SAFE by VARIA FIRETECH

Stored Pressure Type *Portable* **Li-Ion** Fire Extinguishers



- **Special for Li-ion Batteries**
- **Sheet Thickness** 1.8 mm
- **CE Approved Valve** Brass
- **PVC Internal & PP External Coating** Anti-Corrosive Treatment
- **Environment Friendly**
- **Misting Nozzle** Electric Non-conductive

V-SAFE Portable Lion Fire Extinguishers offers wide range of lithium battery fire extinguishers to fight the flames and prevent the propagation of fire. When applied on battery fire The water content of the extinguisher cools the fire source, while the Vermiculite platelets encapsulate the fuel source creating a thermal barrier to prevent the propagation of the fire.

Best in Class Fire Ratings

Proven results on Li-ion Battery Fires

A D Li

In association with

AVD

Features

- Unique gauge testing mechanism
- Stored pressure type, hence always ready for action
- No harmful residues
- Easy to operate & economical to maintain
- Most effective agent on lithium battery fires
- Completely Eco Friendly

Model Codes & Technical Specifications

Capacity	Model	MOC	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)
1 ltr	VFLIPQ-01	MS CRCA Grade 4	AVD	2.2	15	3A	13
2 ltr	VFLIPQ-02			3.7	15	5A	28
6 ltr	VFLIPQ-06			9.5	15	13A	70
9 ltr	VFLIPQ-09			13.0	15	13A	120
2 ltr	VFLISSPQ-02	SS 304	AVD	3.5	15	5A	28
3 ltr	VFLISSPQ-03			5.5	15	8A	40
6 ltr	VFLISSPQ-06			8.8	15	13A	70
9 ltr	VFLISSPQ-09			12.6	15	13A	120

*Factory Tested as per EN 3-7

Stored Pressure Type
Portable **Wet Chemical** Fire Extinguishers

V-SAFE® by VARIA FIRETECH



Works on Kitchen Fire

Sheet Thickness
1.2 mm

CE Approved Valve
Brass

Splash Resistant
SS Nozzle

EPDM Hose
Crack Resistant

Safe Technology

V-safe make wet chemical type fire extinguishers are the best restaurant, kitchen application portable fire extinguishers. The extinguishers are charged with potassium acetate-based agent duly tested for best performance on kitchen hazards. The agent rapidly knocks down the flame out, cooling the burning oil , sealing the surface and preventing any type of re-ignition by chemical reaction to form soap like solution.



CE

The uniquely designed nozzle of wet chemical extinguishers helps in broad application of wet chemical agent at slow application rates not disturbing the cooking oil to splash thereby protecting the fire fighter

Features

- Unique gauge testing mechanism
- Stored pressure type, hence always ready for action
- No harmful residues on kitchenwares post application
- Easy to operate & economical to maintain
- Stainless steel body, hence free from corrosion
- Wide operating temperature range from +5° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	MOC	Agent	Gross Weight (kg)	Working Pressure (Bar)	Fire Rating	Discharge Time (sec)
2 ltr	VFKSSPQ-02	SS 304	Class K Foam	3.5	15	15F*	10
3 ltr	VFKSSPQ-03			5.5	15	5A:25F*	12
6 ltr	VFKSSPQ-06			8.8	15	8A:40F*	21
9 ltr	VFKSSPQ-09			12.6	15	8A40F*	35

* Factory tested

V-SAFE® by VARIA FIRETECH

Stored Pressure Type *Modular* Dry Powder Fire Extinguishers



Auto-discharge Mechanism

Sheet Thickness
2.0 mm

Pressure Gauge
Diaphragm Type

Heat Sensitive Glass Bulb
68° C & 57° C

CE Approved Valve
Brass

Maximum Forced Discharge
Large Area Protection

UL Approved MAP Powder
On Demand

PP Internal & External Coating
Anti-Corrosive Treatment

A B C

CE

Features

- Always ready for action
- Most economical compared to other systems
- Fire detection & suppression system in a single unit
- UV resistant coating
- Dependable drawn cylinders with hydrostatic test at 35 bar
- Wide operating temperature range from -30° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Working Pressure (Bar)	Discharge Time (sec)	Mounting Height Above Risk	Area Protected
2 kg	VMAPQ-02-50	MAP 50%	3.5	15	4 to 5	1.5 mtr	1 to 1.5 m^2
	VMAPQ-02-90	MAP 90%			4 to 5	1.5 mtr	1 to 1.5 m^2
5 kg	VMAPQ-05-50	MAP 50%	7.6	15	6 to 8	2 mtr	2 to 2.5 m^2
	VMAPQ-05-90	MAP 90%			6 to 8	2 mtr	2 to 2.5 m^2
10 kg	VMAPQ-10-50	MAP 50%	14.1	15	10 to 15	2.25 mtr	4 to 5 m^2
	VMAPQ-10-90	MAP 90%			10 to 15	2.25 mtr	4 to 5 m^2
15 kg	VMAPQ-15-50	MAP 50%	21.4	15	15 to 20	2.5 mtr	5 to 6 m^2
	VMAPQ-15-90	MAP 90%			15 to 20	2.5 mtr	5 to 6 m^2

Stored Pressure Type
Modular Clean Agent Fire Extinguishers

V-SAFE by VARIA FIRETECH



Auto-discharge Mechanism

Sheet Thickness
2.0 mm

Pressure Gauge
Diaphragm Type

Heat Sensitive Glass Bulb
68° C & 57° C

CE Approved Valve
Brass

Maximum Forced Discharge
Large Area Protection

UL Approved Clean Agent

PP Internal & External Coating
Anti-Corrosive Treatment



CE

Features

- Always ready for action
- Provides security in case of emergencies and power failure
- Fire detection & suppression system in a single unit
- UV resistant coating
- Dependable drawn cylinders with hydrostatic test at 35 bar
- Wide operating temperature range from -30° C to +60° C

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Working Pressure (Bar)	Discharge Time (sec)	Mounting Height Above Risk	Area Protected
2 kg	VMCPQ-02-36	HFC-236	3.5	15	4 to 5	1.5 mtr	1 to 1.5 m^2
	VMCPQ-02-27	HFC-227			4 to 5	1.5 mtr	1 to 1.5 m^2
5 kg	VMCPQ-05-36	HFC-236	7.6	15	6 to 8	2 mtr	2 to 2.5 m^2
	VMCPQ-05-27	HFC-227			6 to 8	2 mtr	2 to 2.5 m^2
10 kg	VMCPQ-10-36	HFC-236	14.1	15	10 to 15	2.25 mtr	4 to 5 m^2
	VMCPQ-10-27	HFC-227			10 to 15	2.25 mtr	4 to 5 m^2
15 kg	VMCPQ-15-36	HFC-236	21.4	15	15 to 20	2.5 mtr	5 to 6 m^2
	VMCPQ-15-27	HFC-227			15 to 20	2.5 mtr	5 to 6 m^2

Stored Pressure Type / Wheeled Type
Class D **Metal** Fire Extinguishers



Works on Metal Fire

Sheet Thickness
1.8 mm / 4 mm

CE Approved Valve
Brass

EPDM Hose
Crack Resistant

Helium Leak Detection
On Demand

PP Internal & External Coating
Anti-Corrosive Treatment

V-Safe brand Class D fire extinguishers are applicable on reactive metal fires with application area in power plants, battery manufacturing units, explosive industries, nuclear power plants, metallurgical plants, pharmaceuticals and chemical plants as well as units handling flammable metals in aggressive state.



CE

Sodium chloride based agent is applicable on metal fire of Mg, Al powders & paste, Ti, Fe and their alloys with spills and in depth fire source.
Ternary Eutectic Chloride (TEC) based agent is applicable on fire lithium and its alloys mainly used in batteries and other such applications.

Features

- Easy to operate & maintain
- Specially designed extension diffusers for soft flow to fight aggressive metal fires
- Applicable on Li-ion battery fire
- Stored Pressure type, hence always ready for action

Model Codes & Technical Specifications

Capacity	Model	Agent	Propellant	Gross Weight (kg)	Working Pressure (Bar)	Discharge Time (sec)	Operating Temperature
4 kg	VFMPQ-04	TEC / Sodium Chloride	Stored pressure with N_2	7.5	15	25	-30° C to +55° C
6 kg	VFMPQ-06			9.5	15	30	
9 kg	VFMPQ-09			14.5	15	30	
25 kg	VFMPQ-25	TEC / Sodium Chloride	Regulated N_2 cylinder	83.0	17	25	-30° C to +55° C
50 kg	VFMPQ-50			118.0	17	25	
75 kg	VFMPQ-75			149.0	17	25	







Features

Extinguisher Assembly Unit

- Extinguisher clamping device with high torque resistant capacity
- Adjustable to use any size of Portable fire extinguishers
- Clamps covered with rubber sleeves ensures best grip and leave no marks on extinguisher coating/paint
- Variable torque wrench to prevent over-tightening of valves
- Customized fixtures for all type of valves

Dry Powder Refilling Machine

- Powder filling machine can be used for emptying and filling both operation
- It can be used for all Portable Fire Extinguishers (1 Kg to 12 Kg) and Wheeled Fire Extinguishers (25 Kg to 150 Kg)
- Emptying and Filling process is completely dust free
- Auto blow-off mechanism to clean filters and storage silo
- Mounted on wheels makes it portable and easy to move

Nitrogen Filling Machine

- Automatic nitrogen filling machine is featured with auto cut-off mechanism at desired set pressure providing safest filling operation
- With digital pressure control panel
- Compact and easy to use
- Sintered filter at inlet of machine resists dust particles to filled in extinguisher from N2 mother cylinder or bank
- NRV at outlet of machine stops back flow of powder

V-SAFE® by VARIA FIRETECH

Low Pressure / High Pressure *Tubing* Gas Suppression System

Direct Tubing System



The flexible sensor tubing is easily installed inside the electrical cabinet - directly above the wires and circuit where a fire could start. The pressurized heat sensing tube is punctured at the hottest spot of the flame in case of fire. This sudden tube depressurization actuates the specially designed valve thereby releasing the agent with flooding effect through the point where tube was punctured because of the flame.

Indirect Tubing System



For In-direct system the heat sensing and tube acts as a sensing device and agent is discharged via specially designed nozzles. The pressurized heat sensing tube is punctured at the hottest spot of the flame in case of fire. This sudden tube depressurization actuates the specially designed valve thereby releasing the agent through the specially types of nozzles connected to the bottle via SS pipe.



PESO CCOE

- Cylinder available in multiple capacity depending upon application in the range of 2, 4, 6 and 9 kg for low pressure system & 4.5, 6, 9 and 22.5 kg for high pressure system.
- The fire is quickly suppresses just moments after it begins thereby minimizing damage and downtime.
- The flexible sensor tubing is easily installed inside the electrical cabinet, directly above the wires and circuit where a fire could start. When in service, the tubing is pressurized with dry nitrogen to 16 bar.
- The extinguishing agent is UL approved, environment friendly, equipment friendly and demonstrates automatic immediate actuation during early fire.
- Application Area: Electrical cabinets, IT servers, CNC machines, vehicles, fume cabinets, battery operated vehicles, cranes, turbines and many such applications.
- The system can be coupled with heat sensing tube with actuation temperature of 110°C. The tube is available with all the accessories like manual actuation, end of line adapter, different connectors.

Low Pressure/High Pressure Fixed **Fire Suppression** Systems

V-SAFE® by VARIA FIRETECH



It is an advanced extinguishing solution for protection of high-value assets, business processes and people. It is based on an environmentally friendly extinguishing agent. Extinguishing agent is neither corrosive nor conductive, is flexible to use for any area containing electrical and electronic equipments. The flooding system made with premium products gives more reliability and high efficiency to extinguish fire either by reducing heat, or by reducing oxygen level gas or by inhibiting the chain reaction.

Types of Suppression Systems

- Kitchen fire suppression systems
- Watermist based fire suppression systems
- Pre engineered fixed fire fighting systems of FM 200, Novec 1230 & HFC 227 extinguishing agents
- Suppression systems of Co_2 & inert gas extinguishing agents

Certifications

Stored Pressure Type *Automatic* **Modular** Suppression system



A modular fire suppression system is a fire protection system designed to be flexible and adaptable to different environments and applications. Instead of a single, fixed system, it consists of individual modules or components that can be configured and combined according to the specific needs of the space or situation.

These systems typically include components such as detectors (smoke, heat, or flame detectors), control panels, suppression agents (such as water, foam, gas, or dry chemicals), piping or tubing networks, and release mechanisms (such as valves or nozzles).

Working of Modular Suppression System

- **Detection:** This is typically done through sensors such as smoke detectors, heat detectors, or flame detectors
- **Alarm:** When the sensors detect a fire indicating a potential fire, they trigger an alarm
- **Control Panel:** It receives signals from the detectors and processes this information to determine the appropriate response
- **Decision Making:** Based on the information received from the detectors and programmed parameters, the control panel decides whether to initiate the suppression process
- **Suppression Activation:** If suppression is deemed necessary, the control panel activates the suppression agents
- **Agent Delivery:** The suppression agents are delivered to extinguish the fire



Features

- Efficient and early response than conventional modular fire extinguishers
- Easy to Install and Maintenance
- Does not require any dedicated space for storage cylinders
- No need of bulk fabrication of pipes and fittings inside hazard area
- 24X7 protection & programmed operation
- Works for all Classes of Fires
- Environment and Equipment friendly Extinguishing agent
- Cost effective compared to conventional CO_2 and Clean agent flooding systems
- Leaves no Residue after fire fighting

Low Pressure Miniature **Clean Agent** Suppression

V-SAFE by VARIA FIRETECH





VFMINI-100 VFMINI-200 VFMINI-300



CE

Features

- Environment & Equipment Friendly extinguishing agent
- Suitable for any Copact fire hazard area
- No any external power supply required
- Different temperature setting available - 57°C, 63°C, 93°C, etc.
- Easy to install and maintenance free
- Heat Sensitive Glass bulb

Model Codes & Technical Specifications

Capacity	Model	Agent	Gross Weight (kg)	Working Pressure (Bar)	Discharge Time (sec)	Actuation Temp.	Area Protected
100 Grams	VFMINI-100-36	HFC-236	1.1	10 Bar	6 to 8	57°C/63°C/93°C	0.130 m^3
200 Grams	VFMINI-200-36		1.4		10 to 15	57°C/63°C/93°C	0.260 m^3
300 Grams	VFMINI-300-36		2.1		15 to 20	57°C/63°C/93°C	0.290 m^3
100 Grams	VFMINI-100-FK	FK-5-1-12	1.1		6 to 8	57°C/63°C/93°C	0.130 m^3
200 Grams	VFMINI-200-FK		1.4		10 to 15	57°C/63°C/93°C	0.260 m^3
300 Grams	VFMINI-300-FK		2.1		15 to 20	57°C/63°C/93°C	0.290 m^3

S&P SAFETY PRODUCTS PVT.LTD.

Mfg. of : UL listed and BIS Approved Fire Chemicals

Chemist of Fire Fighting

Fire Fighting Foam Chemicals

- Aqueous Film Forming Foam (1%, 3%, 6%)
- Alcohol Resistant Aqueous Film Forming Foam (1/3%, 3/3%, 3/6%)
- Fluorine Free Foam (F3) (1%, 3%, 6%)
- Synthetic Foam (1%, 3%, 6%)
- High Expansion Foam (1%, 3%, 6%)
- Wet Chemical (Kitchen Fire) Foam
- Film Forming Fluoro Protein Foam (3%, 6%)
- Alcohol Resistant Aqueous Film Forming Foam (3/3%, 3/6%)

25 Years of Quality Manufacturing

Dry Chemical Powder

- ABC Class Dry Chemical Powder (MAP 40%, 50%, 90%)
- BC Class Dry Chemical Powder (SBC, PBC)
- D-Class Dry Chemical Powder (TEC)

State of the Art Technology Formulation

National and International Certifications

Complete in-house manufacturing



Foam Concentrates

What are Foam Concentrates ?

- A fire fighting foam is simply a stable mass of small air-filled bubbles, which have a lower density than oil, gasoline or water. Foam is made up of three ingredients - water, foam concentrate and air. When mixed in the correct proportions, these three ingredients form a homogeneous foam blanket.
- Fire fighting foam is a foam used for fire suppression. Its role is to cool the fire and to coat the fuel, preventing its contact with oxygen, thus achieving suppression of the combustion.

Key Parameters of Foam Chemicals

INDUCTION RATE

The induction rate in foam concentrate refers to the percentage rate at which the foam concentrate is drawn into a water stream to create a foam solution. It is a crucial parameter in firefighting equipment and systems, influencing the efficiency and effectiveness of foam generation for suppressing flammable liquid fires

EXPANSION RATE

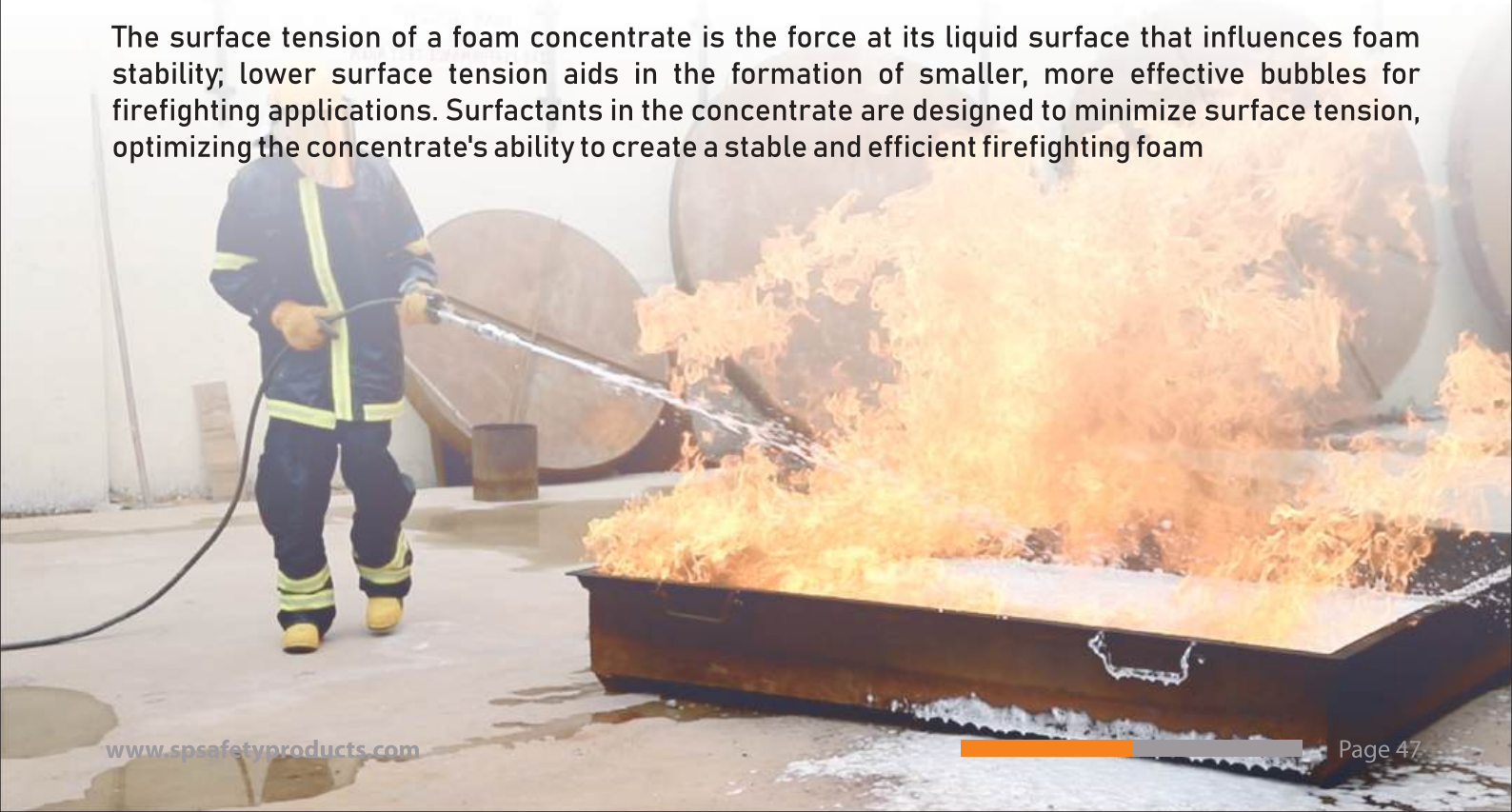
Volume of finished foam divided by the volume of foam solution used to create the finished foam; i.e., a ratio of 5 to 1 would mean that one liter of foam solution after aeration would fill an empty 5-liter container with the expanded foam mass.

DRAINAGE TIME

Drainage time in foam concentrate refers to the duration it takes for the liquid portion of the concentrate to separate from the foam after aeration. It is a critical parameter in firefighting, impacting the stability and effectiveness of the foam in suppressing flammable liquid fires

SURFACE TENSION

The surface tension of a foam concentrate is the force at its liquid surface that influences foam stability; lower surface tension aids in the formation of smaller, more effective bubbles for firefighting applications. Surfactants in the concentrate are designed to minimize surface tension, optimizing the concentrate's ability to create a stable and efficient firefighting foam



Aqueous Film-Forming Foam (AFFF)

SP SAFE AFFF concentrate is a firefighting agent designed to suppress flammable liquid fires by forming a thin film on the fuel surface, preventing ignition and suppressing vapor release. It is widely used in firefighting applications to quickly and effectively combat Class B fires involving fuels such as oil and gasoline.

- Engineered for Class B fires involving flammable liquids such as oil & gasoline
- Creates a protective film to prevent ignition and suppress vapor release swiftly

Alcohol-Resistant Aqueous Film-Forming Foam (AR-AFFF)

SP SAFE AR-AFFF concentrate is a specialized firefighting solution formulated to combat flammable liquid fires, particularly those involving polar solvents and alcohol-based fuels. It forms a protective film on the fuel surface, preventing ignition and providing effective suppression in situations where standard AFFF may be less effective.

- Tailored for fires with polar solvents and alcohol-based fuels
- Ensures effectiveness in scenarios where standard AFFF may be less efficient

Fluorine Free Foam (F3)

SP SAFE F3 is a cutting-edge firefighting solution that eliminates the use of fluorinated compounds, addressing environmental concerns. This eco-friendly foam maintains high performance in suppressing flammable liquid fires by forming a stable and long-lasting blanket. Its formulation reflects a commitment to sustainability, offering an effective and environmentally conscious choice for fire protection.

High Expansion Foam (HX)

SP SAFE HX is a specialized firefighting foam that expands significantly when discharged, creating a voluminous blanket of bubbles. This foam is particularly effective in confined spaces, as it quickly fills the area, suppressing fires by smothering and cooling, making it suitable for scenarios such as basement fires or enclosed storage spaces.

- Provides a significant expansion ratio upon discharge
- Excellently suited for confined spaces, rapidly filling areas to smother and cool fires effectively

Foam Concentrates

Wet Chemical

SP SAFE Wet chemical firefighting involves the use of specialized agents, typically potassium acetate or potassium carbonate-based solutions, to suppress and extinguish kitchen grease fires. This fire suppression method chemically reacts with the hot cooking oil or fat, creating a soapy layer that inhibits re-ignition and effectively controls Class K fires in commercial kitchens.

- Specifically designed for Class K fires involving cooking oils and fats
- Initiates a chemical reaction with hot cooking oil to create a protective layer, preventing re-ignition

Synthetic Foam (SF)

SP SAFE SF concentrate is a firefighting agent composed of synthetic materials designed to generate stable and long-lasting bubbles when mixed with water. It is utilized in foam fire suppression systems to quickly and efficiently control flammable liquid fires by forming a durable foam blanket that prevents the spread of fire and suppresses vapor release.

- Formulated with synthetic materials for stable and durable bubbles
- Deployed in foam fire suppression systems to control flammable liquid fires effectively

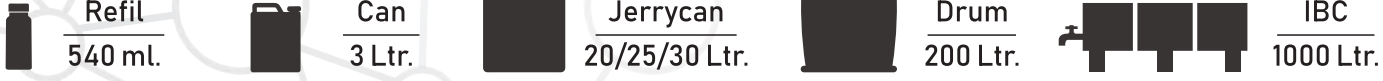
Protein Based Foam

Protein-based foam concentrate is a specialized firefighting agent derived from natural proteins, often sources from animal by-products. This foam is effective in suppressing flammable liquid fires by forming a cohesive and durable blanket, making it a reliable choice for various industrial and fire emergency applications.

Applications

- Industrial Sector: Deployed in petrochemical, manufacturing, and transportation industries for robust fire protection against volatile substances.
- Commercial Kitchens: Vital for preventing catastrophic fires in restaurants and food preparation areas, specifically formulated for Class K fires involving cooking oils.
- Confined Spaces: High expansion foam excels in suppressing fires in basements, storage areas, and other confined environments, offering rapid and effective coverage.
- Foam Systems Integration: Seamlessly integrated into foam systems with generators,

Packaging



Foam Concentrates

Specifications

Property	SP SAFE AFFF FOAM	SP SAFE AR-AFFF FOAM	SP SAFE F3 FOAM	SP SAFE SYNTHETIC FOAM	SP SAFE HX FOAM
TYPE	1% | 3% | 6%	3/3% | 3/6%	1% | 3% | 6%	1% | 3% | 6%	1% | 3% | 6%
Appearance	Amber Color	Viscous Liquid	Light Green	Transparent	Transparent
pH@20°C	6.5-9.5	6.5-9.5	6.5-9.5	6.5-9.5	6.5-9.5
Sp gravity@20°C	1.00 min.	1.02 min.	1.02 min.	1.00 min.	1.00 min.
Miscibility					
Distilled water	Miscible	—	Miscible	Miscible	Miscible
Synthetic Sea Water	Miscible	—	Miscible	Miscible	Miscible
Surface Tension (dyn/cm)	Less than 18	Less than 18	Less than 18	—	—
Spreading Co-efficient	More than +4.5	More than +4.5	More than +4.5		0
*Lowest use Temperature	0°C	0°C	0°C	0°C	0°C
Viscosity @20°C	Max 20 cst	Max 1200 cst	Max 1400 cst	Max 20 cst	Max 20 cst
Sediment	Less than 0.25%(Original) Less than 0.50%(Ageing)				
Freezing and Thawing (Sedimentation fiction)	No Sedimentation / Stratification after freezing and Thawing at (-)5°C to 60°C				
Expansion Ratio	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00	More than 1000
Drainage Time	Min. 90 Sec	Min. 180 Sec	Min. 180 Sec	Min. 90 Sec	Min. 180 Sec

*For extreme sub-zero conditions, **SP SF** can be specially formulated for extreme sub-zero conditions where a concentrate is required to be 'freeze protected' to minus 30°C or even less.

* Also available in freeze protected type

** Value depends on equipment used and system parameters

Certifications

Dry Chemical Powder

What is Dry Chemical Powder ?

Fire extinguisher powder is commonly used for suppressing fires, and the parameters that are important for its effectiveness depend on the type of powder used. There are various types of fire extinguisher powders, but one of the most common is dry chemical powder.

Key Parameters of Dry Chemical Powder

PARTICLE SIZE

The size of powder particles influences the efficiency of extinguishing fires. Finer particles can more effectively smother flames and cover the fuel source.

DENSITY

The density of the powder affects the discharge rate and coverage area. Higher density powders can provide better coverage.

DISCHARGE RATE

The rate at which the powder is discharged from the extinguisher is crucial for effectively suppressing a fire. It should be discharged at a rate that allows for proper coverage and smothering of the flames.

COVERAGE AREA

The effective coverage area is important for ensuring that the fire is adequately covered by the extinguishing agent.

COMPATIBILITY WITH FIRE TYPES

Dry Chemical Powder is versatile and effective for Class A, B and C Fires, involving combustibles, flammable liquids and electrical equipment.

TEMPERATURE TOLERANCE

The powder should be able to withstand a range of temperatures to remain effective in various fire scenarios.

CORROSION RESISTANCE

Some dry chemical powders can be corrosive, so it's essential to consider the potential damage to sensitive equipment and materials.

ENVIRONMENTAL IMPACT

Considerations should be made regarding the environmental impact of the powder, especially if it contains substances that may be harmful.

Dry Chemical Powder

SP SAFE Firefighting Dry Chemical Powder: Your Shield Against Fires

At S&P, Client safety is our priority. Introducing our cutting-edge Firefighting Dry Chemical Powder – a robust and versatile extinguishing agent designed to tackle a spectrum of fire hazards. S&P takes pride in delivering effective solutions that empowers and safeguard Client space. SP SAFE Dry Chemical Powder is engineered to combat Class A (wood, paper), Class B (flammable liquids), and Class C (electrical) fires. Its versatility ensures comprehensive protection against a variety of fire risks. SP SAFE Dry Chemical Powder is designed for user-friendly application. Compatible with various fire extinguisher systems, it ensures that your team can respond efficiently and effectively to fire incidents.

Monoammonium Phosphate (ABC) Dry Chemical Powder

SP SAFE ABC type dry chemical powder is a multi-purpose fire extinguishing agent containing ammonium phosphate, ammonium sulfate, and mono ammonium phosphate. It is effective for combating fires involving Class A (wood, paper), Class B (flammable liquids), and Class C (electrical) hazards by disrupting the combustion process.

Pottasium Bi-carbonate (PBC) Dry Chemical Powder

SP SAFE PBC dry chemical powder is a fire extinguishing agent effective against Class B (flammable liquid) and Class C (electrical) fires. It works by releasing potassium ions that inhibit the chemical reactions involved in combustion, providing versatile and efficient firefighting capabilities.

Sodium Bi-carbonate (PBC) Dry Chemical Powder

SP SAFE SBC dry chemical powder is a widely used fire extinguishing agent effective against Class B (flammable liquid) and Class C (electrical) fires. It works by releasing carbon dioxide upon activation, suppressing the fire by smothering and interrupting the combustion process.

Class-D Dry Chemical Powder

SP SAFE Class D dry chemical powder is specifically designed for suppressing fires involving combustible metals, such as magnesium, titanium, and sodium. This specialized extinguishing agent forms a crust over the metal surface, cutting off the oxygen supply and preventing further combustion.

Ternary Eutectic Chloride (TEC) Dry Chemical Powder

SP SAFE TEC based dry chemical powder is an advanced fire extinguishing agent specifically formulated for suppressing lithium-ion battery fires. It offers efficient and rapid-fire control by interrupting the thermal runaway reactions in battery emergencies.

Dry Chemical Powder

Specifications

Property	SP SAFE ABC	SP SAFE BC	SP SAFE D-CLASS	SP SAFE UPBC
Fire Classes	ABC Class	BC Class	D Class	BC Class
Appearance	Pale Yellow	White	Gray	White
Apparent Density (gm/ml)	0.75-1.10	0.75-1.10	0.75-1.10	0.75-1.10
Extinguishing Agent	Monoammonium phosphate	Sodium Bicarbonate/ Potassium Bicarbonate	Eutectic mixture of chlorides of Sodium,Potassium and Barium	Potassium & Urea Based
Chemical Content	40% min.	75% min.	90% min.	90% min.
Water Content	Less than 1.5%	Less than 1.5%	Less than 1.5%	Less than 1.5%
Moisture Content	Less than 0.5%	Less than 0.5%	Less than 0.5%	Less than 0.5%
Free Flowing	>50 gm/sec	>50 gm/sec	NA	>50 gm/sec
Particle Size Distribution	Range		% Retained	
	100 Mesh/0.150mm		0-2%	
	200 Mesh/0.75mm		0-15%	
	325 Mesh/0.45mm		10-30%	

Packaging


Bag
5 Kg.


Bag
25 Kg.


Drum
200 Kg.


Jumbo Bag
500 Kg.


Jumbo Bag
1000 Kg.

Certifications

UL LISTED

मानक: पथप्रदर्शक:
Bureau of Indian Standards

ICAO • OACI • ИКАО

INDIAN REGISTER OF SHIPPING

CE

CERTIFIED ISO COMPANY

Why Choose SP SAFE ?



Rapid Fire Knock Down

Latest Formulation
Based on C6 Chemistry

Sub-Zero Application
Can be used in -30°C

Environment Friendly
100% PFOA & PFOS Free

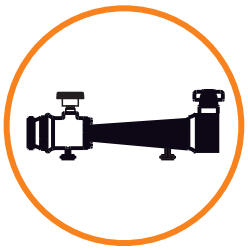
Multiple Accreditation
Certified by UL/BIS/ICAO/IRS

Compatibility
With Multiple Equipment

"SP SAFE" Fire Chemical Compatible Equipments



Foam Monitors



Foam Inductors



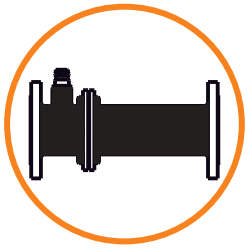
Fire Extinguishers



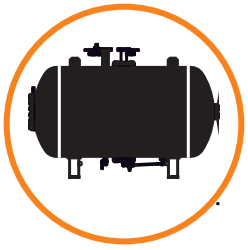
Foam Nozzles



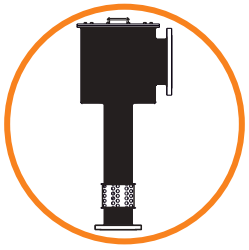
Sprinklers



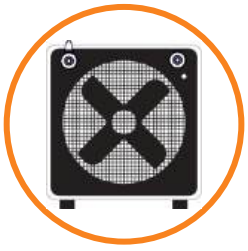
Inline Inductors



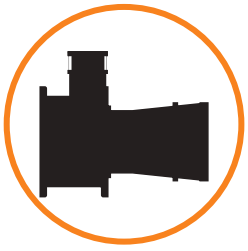
Bladder Tank



Foam Chambers



Foam Generators



Foam Proportioning System

They speak for us

>> and many more...

Global Presence

S&P Safety Products are approved and certified by different international bodies which are globally exported to many countries.

- UAE
- Saudi Arabia
- Oman
- Vietnam
- Kuwait
- Qatar

>> and exploring further



SOS Rescue Tools

V-SAFE® by VARIA FIRETECH

A compact and essential rescue tool kit designed for emergency response, search & rescue operations, and safety professionals.







KEY FEATURES

- High Quality & Durable Tools
- Lightweight & Easy to Carry
- Ergonomic Design for Quick Response
- Essential for Emergency & Rescue Operations
- Compact Carry Pouch for Convenience

BUILT FOR SAFETY. TRUSTED FOR PERFORMANCE.

IDEAL FOR

- FIRE DEPARTMENTS
- RESCUE TEAMS
- DISASTER MANAGEMENT
- INDUSTRIAL SAFETY



V-SAFE®

by VARIA FIRETECH

V WANT YOU SAFE



VARIA FIRETECH INDUSTRIES

105-106, Hapa Industrial Estate,
Opp. Jalaram Temple, Hapa, Jamnagar
Gujarat - 361120, India
E-mail : info@variafiretech.com
Website : www.variafiretech.com

The information presented in this brochure, as on date, is certified to be precise & accurate with no deviation with the best of our knowledge. All regular & routine changes to the product line of Varia FireTech Industries relating to its products would supersede the printed information. The information shared in this catalogue is the sole intellectual property rights of Varia FireTech Industries. Any information required to be reprinted shall be subject to our consent being approved and granted. Violation of the above shall invite legal action.