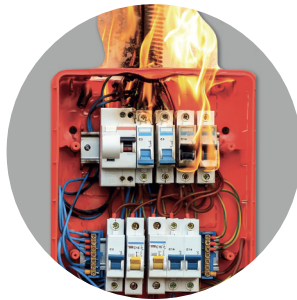


# ALERT™

FIRE EXTINGUISHING STICKERS

**ONE SHORT CIRCUIT  
CAN DESTROY YOUR PROPERTY**

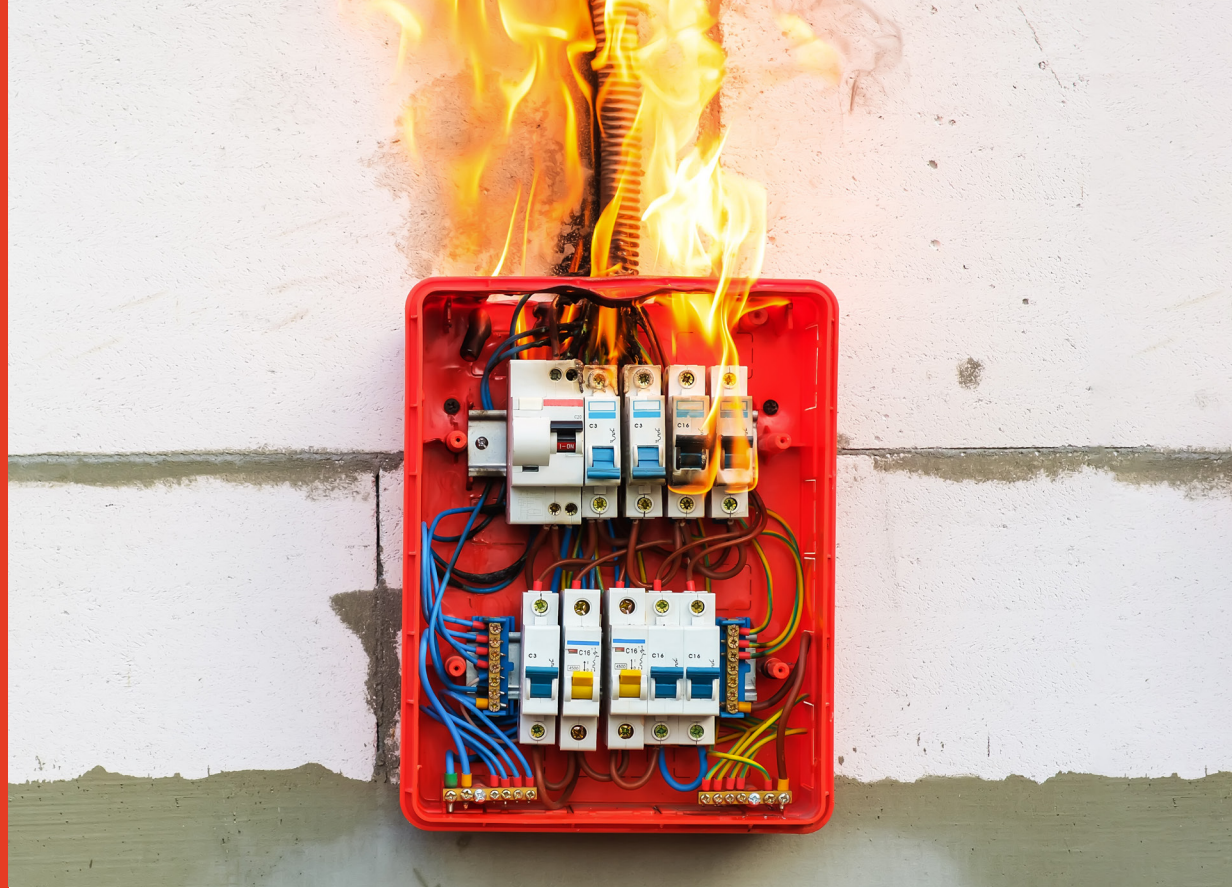


**JUST ONE STICKER  
CAN SAVE IT!**



**ENCLOSURE FIRE PROTECTION**

**MODERN  
HOMES AND  
BUSINESSES  
REQUIRE  
MODERN FIRE  
FIGHTING  
SOLUTIONS.**



**2 MINUTES**

The time it takes for a small fire to become a disaster.



**1.6 MILLION**

The number of fire accidents recorded in India in the year 2021.



**70 PERCENT**

The percentage of fire incidents caused as a result of short circuits or electrical failure.

## **THE PROBLEM**

It is reported that **70%** of all fire incidents are a result of short circuits or electrical failure.

In a world where a powerful framework of electricity fuels modern-day life, the risk of disaster is greater than ever before. It could be due to faulty equipment or lack of maintenance, during a short circuit or overloading, the many causes of accidental fires are always lurking.

# THE SOLUTION

The revolutionary year is 2022. Born with a purpose, **1Alert** brings about a paradigm shift to the world of fire-fighting with avant-garde solutions that significantly reduce the risk of disaster.

1Alert introduces its range of Fire Extinguishing Stickers (STIX) which have the ability to automatically detect and extinguish early stage fires, set by short circuits or other electrical faults, within enclosed spaces.

The products are successfully tested against electrical fires by an NABL accredited fire testing lab in India.

Our Products are suitable for electrical enclosures having volumes of 20 Ltrs. and upto 400 Ltrs.



## LAB TESTED

All products are successfully tested against electrical fires by an NABL accredited fire testing lab in India.





# 1ALERT STIX



20 LTRS



30 LTRS

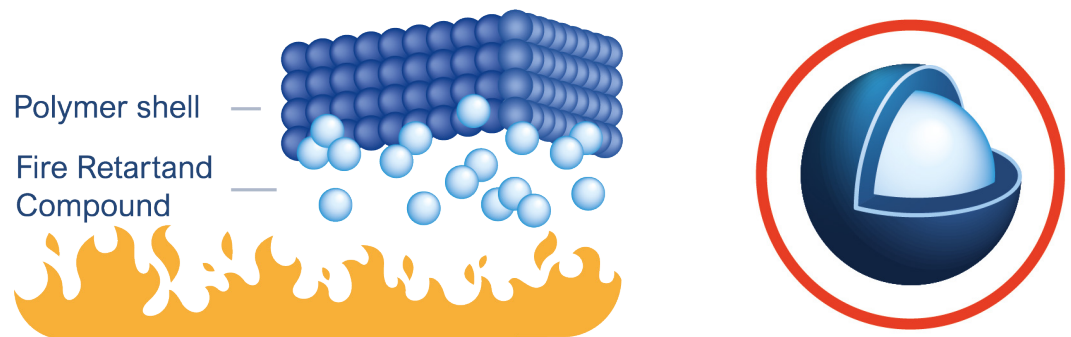


50 LTRS

## THE TECHNOLOGY

1Alert Stix are easy to use fire extinguishing stickers that comprise of special pigments consisting of polymer shells which are applied using microencapsulation technology to insert fire extinguishing agent in the form liquid, gas, or solids into micro-capsules (10-350  $\mu$ M).

The shell of the micro-capsules burst at 120 °C thereby releasing the extinguishing agent (FK-5-1-12) to put out the fire at its incipient stage or delay the propagation of the fire.



1Alert Stix can safely remain in “standby mode” for many years but when activated, will automatically target the fire at its source, preventing the fire from developing further.

The products are intended to be used within electrical enclosures where there may be chances of short circuits or electrical failure which may result in a fire.

It requires no maintenance and has a 5 year lifespan.

1Alert Stix are available in 4 different sizes (20L/30L/50L/65L) depending on the enclosure volume, requiring protection.

# 1ALERT STIX

## PRODUCT FEATURES



**EASY TO USE**  
Peel off and stick



**AUTOMATIC ACTIVATION**  
120° C



**NO DAMAGE TO  
ELECTRIC EQUIPMENTS**



**NON-TOXIC**



**ENVIRONMENTALLY  
FRIENDLY**



**NO MAINTENANCE**



**FTRL TESTED**  
Against electrical fires



**5 YEARS  
Protection**

## TECHNICAL SPECIFICATIONS

MODEL	SIZE (mm)	FIRE EXTINGUISHING CAPACITY (ltrs)	ACTIVATION TEMP. (°C)	FIRE RATING	OPERATING TEMP. (°C)	PRODUCT LIFE
1Alert Stix (20L)	100 x 40 x 1	20	120 +- 5	A/B/C/E	-40/+65	5 years
1Alert Stix (30L)	100 x 100 x 1	30	120 +- 5	A/B/C/E	-40/+65	5 years
1Alert Stix (50L)	150 x 100 x 1	50	120 +- 5	A/B/C/E	-40/+65	5 years
1Alert Stix (65L)	200 x 100 x 1	65	120 +- 5	A/B/C/E	-40/+65	5 years

# 1ALERT STIX

## HOW IT WORKS



### PEEL

Remove the adhesive cover off the back of the sticker.



### STICK

Install the sticker in the potential area of a fire.

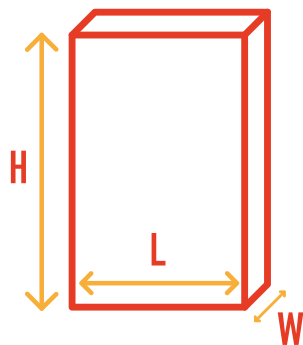


### PROTECT

In the event of a fire, the unit activates at 120°C within a few seconds.

## ESTIMATING ENCLOSURE VOLUME

NOTE: It is advisable to affix the product not higher than 60 cm. from the base of a panel.



Identify the suitable model of 1Alert Stix for your application by calculating the volume of the enclosure by using the below formula:

$$L \text{ (cm)} \times W \text{ (cm)} \times H \text{ (cm)} / 1000 = \text{Volume in litres.}$$

For example:

$$50 \text{ cm (L)} \times 20 \text{ cm (W)} \times 50 \text{ cm (H)} / 1000 = \mathbf{50L} \text{ or } .05 \text{ m}^3$$

# 1ALERT STIX PLUS



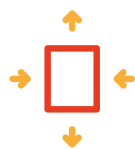
## THE TECHNOLOGY

Engineered using ABS flame-retardant material, the shell of 1Alert Stix plus stores 20 gms. of aerosol agent, which is automatically released when its heat-detection cables are exposed to 170°C or higher temperatures.

Scientifically-fused with strontium salts and oxidants, which when released in the form of condensed aerosol result in a more effective extinguishing method than conventional fire-fighting systems.

1Alert Stix Plus is designed and tested to protect enclosures having volumetric capacity of upto 400 ltrs or 0.4m<sup>3</sup>

## PRODUCT FEATURES



**COMPACT SIZE**  
(8cm x 5cm)



**EASY INSTALLATION**



**NON-PRESSURIZED**



**COVERAGE VOLUME**  
400 ltrs. or 4m<sup>3</sup>



**NON-TOXIC**



**NO CLEAN-UP**



**NO MAINTENANCE**



**LAB TESTED**



**SPRAY TIME**  
Six Seconds



**LIFE SPAN**  
Ten Years

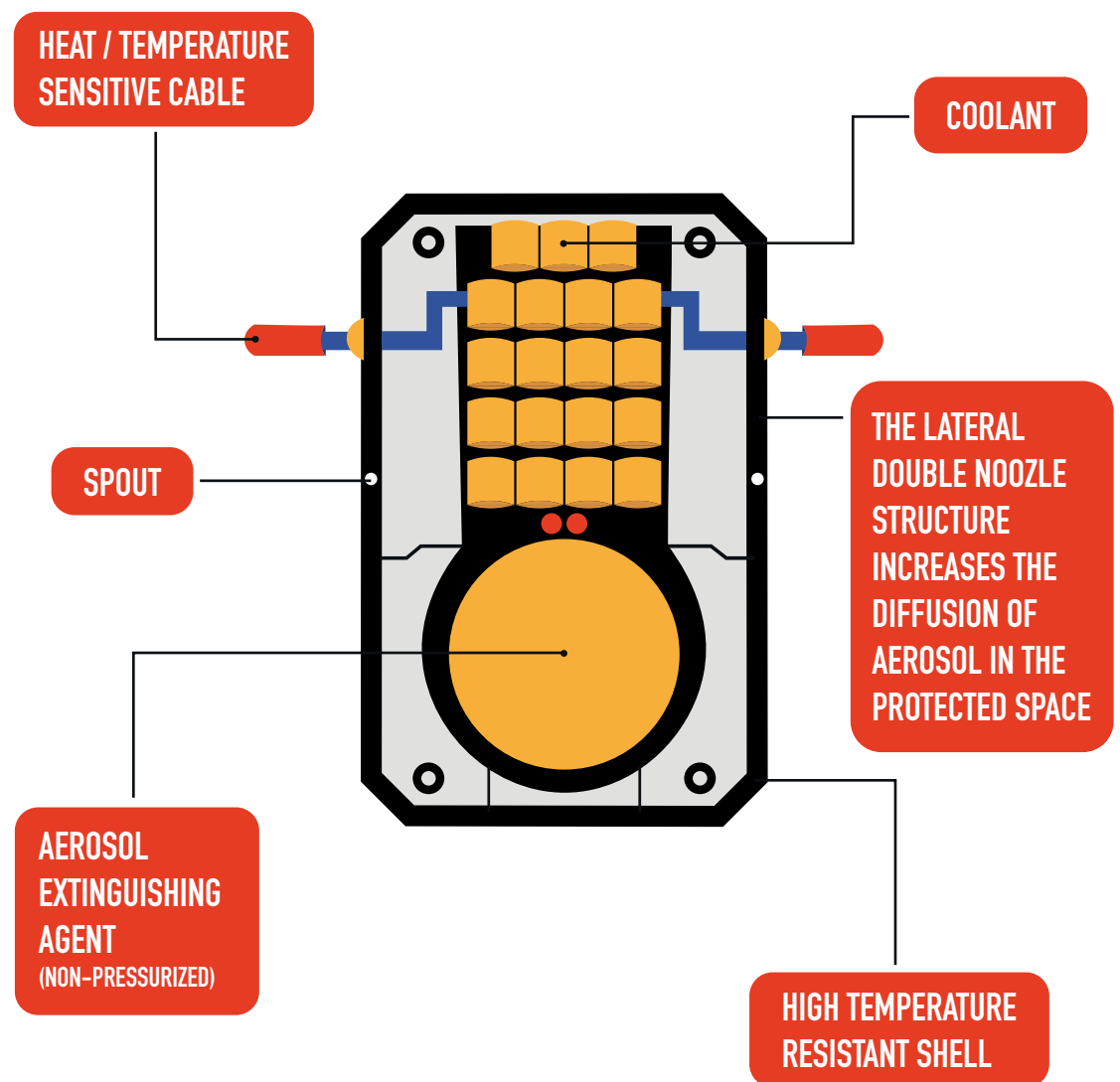


# 1ALERT STIX PLUS

## TECHNICAL SPECIFICATIONS

1ALERT STIX (400L)	AFS170	MATERIAL	ABS Flame retardant
DIMENSIONS	8 cm x 5 cm x 2.7 cm	STORAGE TEMPERATURE	-50° C ~ 110° C
WEIGHT	100g ± 10 g	ACTIVATION TEMPERATURE	>170° C
AEROSOL AGENT	20g ± 1 g	RESPONSE TIME	<20 seconds
SPRAY TIME	6 seconds	PRODUCT LIFE	10 years
PROTECTED AREA	Upto 400 ltrs or .4 m <sup>3</sup>	MAINTENANCE	Maintenance free
PROTECTION CLASS	Class A, B and E	CERTIFICATION	CE F T R L

## INTERNAL STRUCTURE





# 1ALERT STIX PLUS

## HOW IT WORKS

NOTE: Alternately, the product can be affixed to the surface using screws or cable ties in the 4mm (dia.) mounting holes provided at the backside.



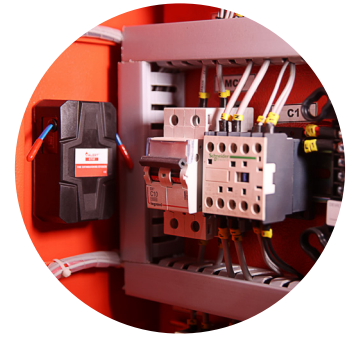
### PEEL

Remove the adhesive cover off the back of the sticker.



### STICK

Install the sticker above the potential area of a fire.

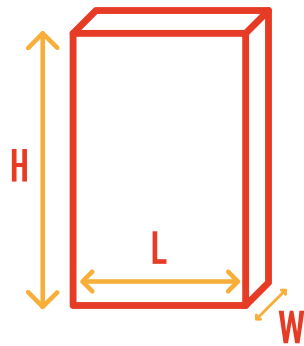


### PROTECT

In the event of a fire, the unit activates at 170°C within a few seconds.

## ESTIMATING ENCLOSURE VOLUME

NOTE: It is advisable to affix the product not higher than 60 cm. from the base of a panel.



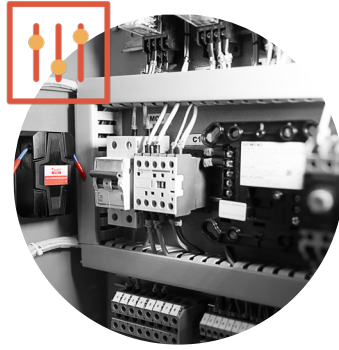
1Alert Stix is designed and tested to protect enclosures having volumetric capacity of upto 400 ltrs or 0.4m<sup>3</sup>. It is advisable to calculate the volume of an enclosure using the following formula:

$$L \text{ (cm)} \times W \text{ (cm)} \times H \text{ (cm)} / 1000 = \text{Volume in litres.}$$

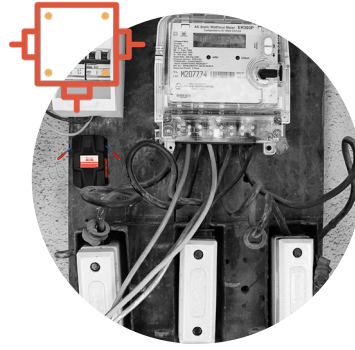
In case the volume is higher than the rated capacity, we recommend installing an additional sticker.

# APPLICATIONS

Along with these standard applications, 1Alert can be installed within a multitude of electrical enclosures that pose a fire hazard.



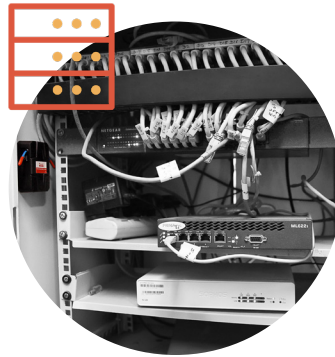
**CONTROL  
PANELS**



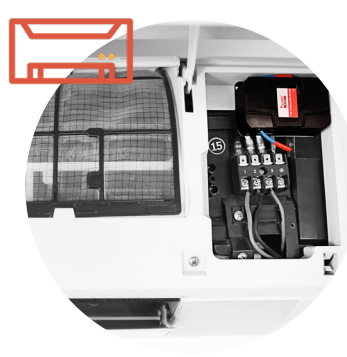
**JUNCTION  
BOXES**



**MCB  
BOARDS**



**SERVER  
ROOM PANELS**



**AIR  
CONDITIONERS**



**EV CHARGING  
STATIONS**

# CONTACT US



[support@1alert.in](mailto:support@1alert.in)



022 61486248



[www.1alert.in](http://www.1alert.in)



New Fire Engineers Pvt.Ltd, 16 TV Industrial Estate, SK Ahire Marg, Worli,  
Mumbai - 400030, India

