

Suppression and Chemical Isolation

Explosion suppression systems are designed to impede the development of high pressures. Due to explosion of combustible dust inside of industrial process equipments and vessels. part of industrial premises, that have not been designed to withstand these explosion pressures.

The detection and extinction of the explosion detains the wave of pressure and shuts off the flame. This also makes it possible to prevent the propagation of flames.

The explosion suppression systems have undeniable appeal. This is because the majority of the equipment parts and receptacles cannot resist the pressure of an explosion.

ADIX ExSuppression is an Explosion Suppression System that is characterized by the extremely fast discharge of an extinguishing agent (in milliseconds). This short response time suppresses the incipient explosion immediately, which can also prevent flame propagation.



Basically it carries out its functions in three stages:

Detection: it's achieved through components that are activated by pressure or light. The most appropriate distribution of sensors is determined by the process conditions.

Start up: as a result of the detection, a signal is sent to the electronic control system indicating that a combustion process has been detected. This given system processes the received signal, and begins the receptacle opening sequence that contains the extinguishing agent.

Suppression and Chemical Isolation: through the discharge of the extinguishing agent, the equipment does not suffer damage from excess pressure.

Specifications	Measurements
Type	10 L Bottle
Total Weight	17 kg
Agent Weight	6 kg
Agent Type	Sodium bicarbonate
Pressure	60 - 90 bar (+5% / 20°C)
Flow Section Diameter	3" (75mm)
Max.Temp.environment	+70°C
Min.Temp.environment	- 20°C
Color	RAL3020
Trigger Element	Gas generator
Type of Protection	II 1/2D T85°C IP65 II 1/2G T6
Appropriate Use	Zone 21, installation interior zone 20

