

# GAS SUPPRESSION SYSTEMS

## INERT GAS (PRODUCT OVERVIEW)

Ceasefire inert gas suppression system uses a combination of natural gases, including Argon 100%, Nitrogen 100%, Argon 50% + Nitrogen 50%, and Nitrogen 52% + Argon 40% + CO2 8% as extinguishing agents. These gaseous mixtures leave no residue behind and are designed to protect isolated areas like data centres, server rooms, bank lockers, etc., where there is a need for a quick reaction to extinguish a fire.

The system reduces the amount of oxygen present in the area where the fire breaks out. By removing this vital element, the fire gets easier to contain. While the oxygen level is lowered, the system does not eliminate oxygen from the space altogether. There is still enough oxygen present to sustain proper breathing as anyone in the immediate area moves along the escape route and exits the room.



## CO2 (PRODUCT OVERVIEW)

The Ceasefire Inert Gas suppression system makes use of the naturally occurring gas CO2 as an extinguishing agent. The gas reduces the oxygen concentration in the given space and extinguishes fire, leaving no residue behind. The system does not eliminate oxygen from the space altogether, leaving enough oxygen to support life but not fire!



## ENGINEERING DRAWINGS

Container size (Ltr.)	Diameter mm (Approx.)	Length 'L' mm (Approx.)
80	256	1391
140	256	2056

Inert Gas based Fixed Fire Extinguishing System  
Product code CF-001258

Container size (Ltr.)	Diameter mm (Approx.)	Length 'L' mm (Approx.)
27	232	1176
45	232	1656
55	232	1921
68	267	1851

CO2 agent based Fixed Fire Extinguishing System  
Product code CF-001329



TECHNICAL SPECIFICATIONS

Product Code	UOM	CF-001258	CF-001329
Description	—	Inert Gas (IG-01 Argon, IG-100 Nitrogen, IG-541 Nitrogen 52% ,Argon 40%, Carbon dioxide 8% and IG-55 Nitrogen 50%, Argon 50%) based Fixed Fire Extinguishing System	Co2 agent based Fixed Fire Extinguishing System
Capacity of Agent Container	L	80, 140	27, 45, 55, 68
Filling Ratio of Container	—	0.2 to 0.2978 cu.m per Liter	0.6 to 0.7 Kg per Liter
Agent Container (Type & Approval)	—	C.S. Seamless (PESO/TPED)	C.S. Seamless to IS:7285-2 (PESO/TPED)
System Certification	—	VDS 2454en VDS 2344en	VDS 245en VDS 2344en
System Design	—	NFPA-2001 ISO 14520-1 BS EN 15004-1 BS EN 15004-8	NFPA-12 BS EN 5306-4 VDS 2093
Discharge Time (Min.-Max.)	SEC.	6 TO 60	60 TO 120
Approx. System Pressure (@ 21 Deg. C)	BAR	200/300	70
Type of Operating Mechanism	—	Automatic/Manual	Automatic/Manual
Operating Temperature Range	°C	0 to +50	0 to +50
Application and design concentration	—	Class A (6.7%) Class B Class C (7%).	Class A Class B Class C
Type of valve & Approval	—	Dn12 Valve with 200 BAR - Vds Approved DN12 Valve with 300 BAR - Vds Approved	Dn12 Valve with 70 BAR - Vds Approved
Nozzle Size	MM	10, 15, 20, 25, 32, 40, 50	10, 15, 20, 25, 32, 40, 50
Nozzle Material & Type	—	Nickel Plated Brass & 180° & 360°	Nickel Plated Brass & 180° & 360°

<b>Product Code</b>	<b>UOM</b>	<b>CF-001258</b>	<b>CF-001258</b>
<b>System Network Piping</b>	—	C.S./M.S. Seamless To ASTM A-106, SCH. 40/SCH. 80	C.S./M.S. Seamless To ASTM A-106, SCH. 40
<b>Manifold</b>	—	Fabricated from C.S./M.S. Seamless pipe To ASTM A-106, SCH. 80/SCH.160	Fabricated from C.S./M.S. Seamless pipe To ASTM A-106, SCH. 80
<b>Product Warranty</b>	YEAR	1	1

## CERTIFICATIONS



## PRODUCT PICTURES



\*v1' Published Date is 31-07-2022.

\*\*Regular R&D and product improvisations may lead to change in product specifications in this data sheet, without any prior notice.

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