TOTAL SOLUTION PROVIDERS FOR FIRE PREVENTION & FIRE FIGHTING NEEDS.



CLEAN AGENTFIRE EXTINGUISHING SYSTEM









COMPANY PROFILE



SWASTIK SYNERGY ENGINEERING PVT. LTD. (SSEPL) is one of the leading Manufacturer and supplier of Fire Fighting Appliances, Equipment & Systems.

SSEPL's manufacturing and warehousing facility is located at Khopoli near Mumbai and it consists of all the necessary and sophisticated plant & machinery to manufacture automatic fire suppression system. Its Head Office is Located at Santacruz.

SSEPL is approved by CCOE (PESO) for filling and storing of Clean Agent Gases. SSEPL is registered as a MSME Unit and has adopted ISO 9001:2015 and ISO 45001:2018.

SSEPL Specializes in following products

- UL CO2 Fire Extinguishing System
- UL Kitchen Fire Extinguishing System
- VDS Inert Fire Suppression System
- LPCB SYNERGY Firessense Direct Low Pressure System
- UL Clean Agent Fire Extinguishing System

FK-5-1-12 GAS DESCRIPTION



Clean Agent fire Suppression system uses FK-5-1-12 (SYNERGY 1230) which acts as a solution to all the above mentioned risks of fire.

Most materials such as steel, aluminium, stainless steel, brass, as well as plastics, rubber and electronic components are not affected by exposure to FK-5-1-12 (SYNERGY 1230). This agent is also environmentally friendly, having an ozone depletion potential (ODP) of 0.00.

SYSTEM FEATURES





Environment Friendly

Most materials such as steel, aluminium, stainless steel, brass, as well as plastics, rubber and electronic components are not affected by exposure to FK-5-1-12 (SYNERGY 1230). This agent is also environmentally friendly, having an ozone depletion potential (ODP) of 0.00.



Minimum Downtime

FK-5-1-12 (SYNERGY 1230) leaves no residue thereby minimizing after fire clean up, along with keeping expensive downtime to a minimum.





SYSTEM FEATURES



Residue-Free

FK-5-1-12 (SYNERGY 1230) is clean and leaves no residue, thereby minimizing after fire clean up.



UL Certified

International Standard – Clean Agent fire Suppression is manufactured to the highest global and national standard like Underwriters Laboratories.

TECHNICAL DETAILS OF GASES



Characteristic	Units	Value
Molecular Mass	_	316.04
Boiling Point at 1.013 Bar (Absolute)	°C	49
Freezing Point	°C	-108.0
Critical Temperature	°C	168.66
Critical Pressure	Bar	18.646
Critical Volume	cm³/mol	494.5
Critical Density	kg/m³	639.1
Vapor Pressure at 20°C	bar abs ^a	0.3260
Liquid Density at 20°C	g/ml	1.616
Density of the Saturated Vapor at 20°C	kg/m³ 4,330 5	4.3305
Specific Volume of the Superheated Steam at 1.013 Bar and 20°C	m³/kg	0.0719
Heat of Evaporation at the Boiling Point	kJ/kg	88.0
Chemical Formula	CF ₃ CF ₂ C(O)CF(CF ₃) ₂	
Chemical Name	Dodecafluoro-2-methylpentan-3-one	
2		

 $^{^{}a}$ 1 bar = 0.1 MPa = 10^{5} Pa; 1 MPa = 1 N/mm^{2}



COMPONENTS

























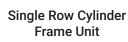












Frame Unit





AGENT STORAGE CONTAINER ASSEMBLY



Part No.	Nominal Volume		
	ltrs.	lb	
791001	34	75	
791002	40	88	
791003	46.7	103	
791004	50	110	
791005	60	132	
791006	68	150	
791007	80	176	
791008	100	220	
791009	120	265	
791010	140	309	
791011	150	331	
791012	160	353	
791013	180	397	
791014	200	441	







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