

BlazeCut **FK-5-1-12**

Fire protection **fluid**

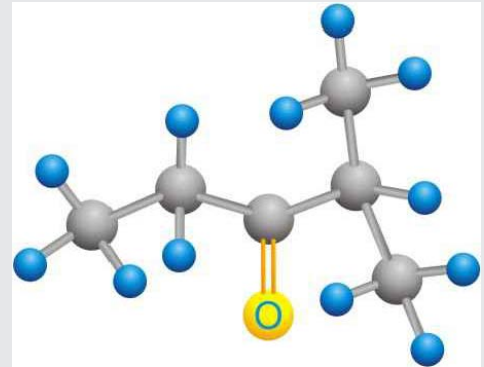


Introduction

Next generation sustainable clean agent protection

BlazeCut FK-5-1-12 fire protection fluid is used in BlazeCut C Series clean agent fire suppression systems. The full chemical name is Dodecafluoro-2-Methylpentan-3-One and is a sustainable substitute for HFC and Halon 1301 fire agents with excellent fire extinguishing performance and typical safety & environmental characters of:

- **Clean and doesnot leave residue.**
- **Electrically non-conductive.**
- **Safe for people and animals.**
- **Zero Ozone Depleting Potential (ODP=0)**
- **Low Global Warming Potential (GWP<1)**
- **Quick and effective extinguishing performance**



BlazeCut FK-5-1-12 material specification is in compliance with NFPA 2001 (Standard on clean agent fire extinguishing systems) and ISO 14520 (Gaseous fire extinguishing systems).

FK-5-1-12 is the generic name of the fire protection fluid MH5112™ and is also commonly know with the synonyms of 3M™ Novec™ 1230 fluid, Flouroketone or Perflouro (2-Methyl-3-Pentanone).

Properties

Chemical Name	FK-5-1-12
Empirical Formula	$\text{CF}_3\text{CF}_2\text{C}(\text{O})\text{CF}(\text{CF}_3)_2$
CAS Number	756-13-8
Molecular Weight	316.04
Boiling Point	49°C
Freezing Point	-108°C
Viscosity Liquid (25°C)	0.524Cp
Vapor Pressure (25°C)	40.4KPa
Extinguish Concentration (Cup)	4.5%
NOAEL (V/V)	10%
LOAEL (V/V)	>10 %
LC50 (V/V)	>10%
Ozone Depleting Potential	0
GWP	1

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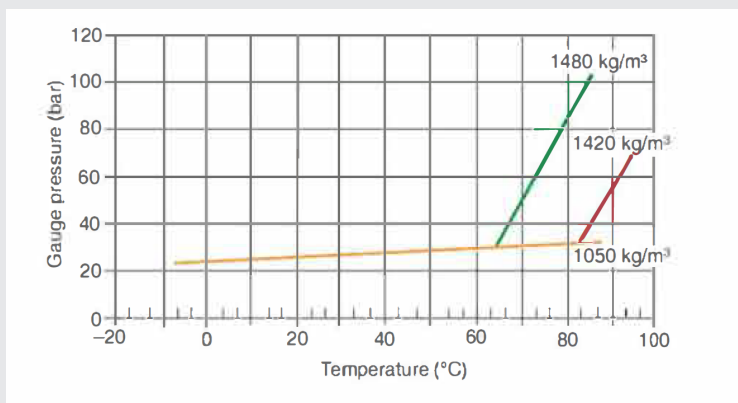


Quality Control

- Quarterly UL audits every year.
- Quarterly FM audits every year.
- Manufactured according to the latest ISO9001 standards
- Manufacturing quality control ensures that all raw materials, in-process materials and finished products are monitored at all stages of production.



Filling Curve



Isometric diagram of FK-5-1-12
pressurized to 25 bar, gauge at 20°C.

Applications

BlazeCut FK-5-1-12 fire suppression agent is a sustainable substitute for HFC gases and Halon 1301. It is particularly useful in computer rooms, server racks, electrical cabinets, data processing centers, semiconductor manufacturing facilities, industrial process control rooms, petrochemical facilities, chemical storage rooms, libraries and museums, critical military applications and so on.



Contact

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Manufacturing:

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