

Halocarbon Perfluorohexanone FK-5-1-12 Clean Agent High Safety

Basic Information

- Place of Origin: Guangzhou, Guangdong, China
- Brand Name: RUIGANG
- Certification: CCC
- Model Number: FK-5-1-12
- Minimum Order Quantity: 1000kg
- Price: negotiation
- Packaging Details: Plywood outer box with bubble bag or paper
- Delivery Time: 15~20 working days
- Payment Terms: L/C,T/T
- Supply Ability: 10000kg per month



Product Specification

- Chemical Formula: Perfluorohexanone
- Transport Package: Tank
- Classification: Halocarbon
- Safety: High
- Company Type: Manufacturer Over 20-Years
- Specification: FM-5-1-12 Clean Agent
- The Acidity Of Agent: ≤ 0.0001
- Boiling Point (1 Atm): 49.2°C
- Freezing Point: -108°C
- Critical Density: 639.1kg/m³
- Suspended Matter Or Sediment: Invisible For Premium Grade
- Highlight: Perfluorohexanone FK-5-1-12 clean agent,
Halocarbon fk 5 1 12 agent,
Halocarbon FK-5-1-12 clean agent



Product Description

Efficient and environmentally friendly,FK-5-1-12 demonstrates excellent performance

FK-5-1-12 fire extinguishing agent is an important alternative to halon fire extinguishing agents, belonging to fluorinated ketone compounds. Under normal temperature, it is a clear, colorless, odorless liquid. This fire extinguishing agent mainly achieves its fire extinguishing effect through heat absorption, and will rapidly vaporize after spraying. In addition, the vaporization heat of FK-5-1-12 is only 1/25 of water, while its vapor pressure is 25 times of water, which makes it easy to vaporize and exist in gaseous state.

In terms of fire extinguishing, FK-5-1-12 achieves fire extinguishing mainly by suppressing the combustion chain reaction. At high temperatures, FK-5-1-12 decomposes to produce radicals, which react with radicals in the flame to suppress the combustion chain reaction and extinguish the flame. Additionally, it can also reduce the temperature of the surface of the combustible material and decrease the oxygen concentration on the surface, further suppressing combustion.

One of the outstanding features of FK-5-1-12 fire extinguishing agent is its excellent environmental performance. It has an ozone depletion potential of 0, a global warming potential of 1, and an atmospheric lifetime of only 0.014 years (about 5 days). These characteristics make it a long-term and durable replacement for environmentally harmful fire extinguishing agents such as halons, hydrofluorocarbons, and perfluorinated compounds.

In terms of application, FK-5-1-12 fire extinguishing agent has a wide range of applications, including computer rooms, data centers, aviation, ships, vehicles, libraries, oil and gas production facilities, and other places. Additionally, due to its non-conductive and non-corrosive properties, it is often used in electrical facilities such as distribution cabinets, substations, computer rooms, charging piles, power grids, and other places. Its high efficiency, non-residue, and safety also make it suitable for use in high-value treasures, equipment, or places such as document archives, high-end office buildings, underground projects, telecommunication centers, and other locations.

In terms of safety, FK-5-1-12 is harmless to humans and animals, and does not have any harmful effects on the human body. At the same time, it is easily decomposed in the air and does not form residues, thus posing no pollution to the environment. Additionally, its high insulation properties ensure that it does not affect electrical equipment.

Overall, FK-5-1-12 fire extinguishing agent has become an important component of modern fire extinguishing technology due to its excellent fire extinguishing performance, environmental friendliness, and wide range of applications. For more information, please refer to relevant websites for fire protection products or consult fire protection professionals.



Quality Indicators

Project	Indicator
Perfluorohexanone Content, %	≥ 99.9 for Premium Grade
Moisture, mg/kg	≤ 10.0 for Premium Grade
Acidity Content (as HCl), mg/kg	≤ 3.0 for Premium Grade
Evaporation Residue Content, %	≤ 0.02 for Premium Grade
Suspended Matter or Sediment	Invisible for Premium Grade

Physical Properties
Boiling Point (1 atm) | 49.2°C
Freezing Point | -108°C
Critical Temperature | 168.7°C
Critical Pressure | 18.65bar
Critical Volume | 494.5ml/mol
Critical Density | 639.1kg/m3
Density (Liquid) | 1.6g/ml
Density (Gas, 1 atm) | 0.0136g/ml
Specific Volume (Gas, 1 atm) | 0.0733m3/kg
Specific Heat (Gas, 1 atm) | 0.891kJ/kg°C
Heat of Vaporization | 88kJ/kg
Liquid Viscosity (0°C/25°C) | 0.56/0.39cst
Vapor Pressure (20°C) | 0.326bar
Dielectric Strength (Gas) | 5.78kV/mm
Dielectric Strength (Liquid) | 17.78kV/mm
Relative Dielectric Strength (1 atm, N2=1) | 2.3

Environmental Performance

Property	TunAn® 1230	Halon- 1211	Halon- 1301	HFC- 125	HFC- 227ea
Ozone Depletion Potential (ODP)	0	4	12	0	0
Global Warming Potential (GWP)	1	1890	7140	3500	3220
Atmospheric Lifetime (Years)	0.014	16	65	29	34.2
SNAP Listed	Yes	No	No	Yes	Yes



Because we are dedicated,
so we are professional.





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