



STP-FP-004 v. 006 -

## HFC 227ea FE



HFC 227ea FE is UL Recognized (EX16326) as a Clean Agent for Fire Extinguishers and Extinguishing System Units.

### PERFORMANCE

HFC 227ea FE is an heptafluoropropane. With a constant quality, it meets all the requirements of a clean agent for fire extinguishers and extinguishing system units. Its **non-flammability** allows a wide range of formulations requiring safety measures (*regulations, hazardous environments, confined spaces*). Potentially Explosive Atmospheres (ATEX) **equipment and protective systems are not required**. With no effect on the ozone layer.

### SPECIFICATIONS

Standard Characteristics	Limit values
Appearance	Clear
Purity	≥ 99 % mol
Moisture content	≤ 10 ppm weight
Acidity (HCl)	≤ 2 ppm weight
Non-volatile residue	≤ 100 ppm weight

### CHARACTERISTICS

		Units	Values
Chemical formula			CF <sub>3</sub> -CHF-CF <sub>3</sub>
Chemical name			1,1,1,2,3,3,3-heptafluoropropane
Molecular weight		g/mol	170
Boiling point	at 1.013 bar	°C	-16.5
Liquid density	at 20°C at 50°C	kg/dm <sup>3</sup> kg/dm <sup>3</sup>	1.41 1.26
Relative pressure	saturating vapor at 20°C saturating vapor at 50°C	bar bar	3.0 8.2
Kauri-Butanol index			13
HFC 227ea FE solubility	in water at 20°C	% weight	0.006
Water solubility	in HFC 227ea FE at 25°C	% weight	0.006
Lower Flammability limit Upper Flammability limit	in the air at 20°C below 1.013 bar	% volume	non-flammable
Auto-ignition temperature		°C	none



## PACKAGING

	Container
Capacity (liter)	930
Tare (kg)	460
Load (kg)	1100
Diameter (mm)	860
Height (mm)	2330
Outflow external diameter (mm)	26.1
Tap : right pitch (mm)	1.814
Test pressure (bar)	33

- Packaging technical characteristics are available upon request to the commercial department.
- Feasibility of filling packaging of the customers if they are in conformity with the legislation.
- Contact us for any other specific packaging.

## STORAGE AND SHELF LIFE

### Precautions for handling and storage:

**French plants are controlled by the regulation of listed Establishments and have to comply with it (or with the local legislation).**

- All packaging will be stored in a dry, well ventilated, easily accessible place, sheltered from sunlight and bad weather, away from any ignition source.
- It is recommended to store all packaging either in a specific place or isolated and sheltered by a fence.
- All packaging and piping will be grounded to discharge static electricity.
- Leak detectors, put at ground level, will be connected to an audible alarm, which will trigger in the event of leaks.
- The whole equipment will be tested with an appropriate leak detector before use.

**Climalife can study the set up and assembling of your storage tanks, piping, and pumps, according to the prevailing regulations.**



## CONDITIONS OF USE

Please refer to the Material Safety Data Sheet (MSDS) before using the product.

Workers handling the product should be trained about risks and preventive measures.

The product is compatible with:

COMPATIBILITY
Plastics :
▪ Polyethylene
▪ Polypropylene
▪ Polyurethane
▪ PVC
Elastomers :
▪ BUNA N®
▪ Natural rubber
Metals :
▪ Stainless steel
▪ Ordinary steel

*The information above is intended as a guide only. We assume no liability for its accuracy on its use. The user should make its own tests under its conditions in order to determine the suitability of any compound in a peculiar application.*

**Handle:**

- away from heat sources (flames or hot metallic surfaces)
- in cool and aired premises

## HEALTH SAFETY ENVIRONMENT (HSE)

Consult the Material Safety Datasheet (MSDS) on the website: [www.quickfds.com](http://www.quickfds.com)

*This data is based on information that the manufacturer believed to be reliable and offered in good faith. In no event will Climalife be responsible for special, incidental and consequential damages. The user is responsible, to the Administrative Authorities (Regulation of the listed establishments for the protection of the environment), for the conformity of his installation.*