

FM-200®

- Suitable for occupied areas
- Discharge time: 10 seconds
- No residue to clean up after discharge
- Widely accepted as substitute to Halon 1301
- Compliance with standards ISO-14520 and NFPA 2001
- Suitable for storage in welded high pressure cylinders, saving space and money
- Electrically non - conductive
- Zero Ozone Depletion Potential

FM-200® extinguishing agent is a clean gas widely accepted as substitute to Halon. **FM-200®**, or heptafluoropropane ($\text{CF}_3\text{CHFCF}_3$), is suitable for the protection of most hazards where Halon 1301 had to be applied in the past. Because **FM-200®** is not electrical conductive, (but it is odourless and colourless), it is effective in the protection of electrical hazards, such as computer rooms.

Furthermore, it is suitable for class A fires (fires including solid materials) as well as for class B fires (flammable liquids).

FM-200® extinguishes fires mainly by physical means, weakening and extinguishing the fire by absorbing heat.

Once discharged, **FM-200®** extinguishes the fire quickly reducing to a minimum damages to property and valuable equipment, likewise ensuring total safety to persons.

LPG systems containing **FM-200®** are designed to discharge within 10 seconds. Extinguishing agent pressurized with dry Nitrogen at 42 bar and stored in steel cylinders fitted with approved valves.



A wide field of application



Loss Prevention
Certification Board



Agencia Protección Contra
Incendios Ministerio del
Interior



Centre National
de Prévention et Protection



Underwriters Laboratories



Where To Use It:

- With electrical or electronic equipment
- Archives
- Stores
- Cable ducts
- Engine rooms
- Flammable liquids
- Hazards with people inside



Physical Properties

Chemical name:

Heptafluoropropane

Chemical formula:

$\text{CF}_3\text{CHFCF}_3$

Compliance with ISO 14520 and NFPA 2001:

HFC-227ea

Molecular weight:

170

Boiling point at 1.013 bar:

-16.4° C

Liquid density at 20° C:

1407 kg/m³

Critical temperature:

101.7° C

Critical pressure:

29.12 bar

Vapour pressure at 20°C:

3.91 bar

Relative electrical resistance at 1atm. 25° C ($N_2=1.0$):

2.0

Maximum filling density :

1.15 kg./l.

Design concentration for heptane:

9%

Flooding factor for heptane at 20° C:

0.721 kg./m³

Design concentration for surface fires class A (ISO):

7.9%

Flooding factor for surface fires class A (ISO):

0.625 kg./m³

Design concentration for class A higher fires (ISO):

8.5%

Flooding factor for class A higher fires (ISO):

0.677 kg./m³

Design concentration for class A fires (NFPA):

7.3%

Flooding factor for class A fires (NFPA):

0.574 kg./m³

NOAEL:

9%

LOAEL:

10.5%

Ozone depletion potential:

0

Greenhouse effect potential :

2900

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