

3M™ Novec™ 1230 Fire Suppression System

- By far the largest safety margin for total flooding in occupied spaces of any clean agent currently available
- Zero Ozone Depletion Potential
- Low Global Warming Potential
- Atmospheric Lifetime of only five days
- Colourless, electrically non-conductive and non-corrosive
- Fast fire fighting by reaching extinguishing concentrations in less than ten seconds

The Kidde 3M™ Novec™ 1230 fire suppression system is the next generation in gaseous fire suppression technology. Designed to protect human life and high value assets from fire, it meets industry concerns for safety, performance and the environment.

Novec 1230 fluid (FK-5-1-12) is a fluorinated ketone that is stored as a liquid and discharged as a gas. It distributes uniformly throughout the hazard zone, and suppresses fire primarily by heat absorption from the flame.

Environment

With a zero ozone depletion potential (ODP), a global warming potential (GWP) of just one, and an atmospheric lifetime (ALT) of only five days, Novec 1230 fluid offers an environmentally responsible option for fire suppression. Novec 1230 does not fall under the European F-Gas Regulation. At the end of the lifetime of the system, the fluid can be readily recovered and recycled.

Clean

Novec 1230 fluid discharges as a colourless, electrically non-conductive and non-corrosive gas that does not damage sensitive equipment. There



3M™ Novec™ 1230

is no post-discharge residue, no costly clean-up operations are required, and down-time is kept to a minimum.

Cost-effective

By using its tried and trusted range of 25 bar equipment, Kidde Fire Protection can offer a cost-effective Novec 1230 fire suppression system.

Efficient

Novec 1230 fluid reaches extinguishing concentrations in less than ten seconds, while being effective on a wide range of Class A, Class B and electrical fires.

Safety

The US EPA Significant New Alternatives Program (SNAP) classifies Novec 1230 fluid as acceptable for use as a total flooding agent in occupied spaces. It has by far the largest safety margin of any clean agent currently available.

System Design

Novec 1230 fluid is stored as a liquid super-pressurised to 25 bar with nitrogen. These systems have minimal storage space and weight requirements compared to other viable gaseous agents.

Cylinders

A wide range of cylinder sizes from 5 to 368 litres is available. Each cylinder is manufactured from high strength alloy steel and both TPED and DOT are available.

Novec 1230 fluid complies with chemical notification requirements:

Europe – ELINECS • USA – TSCA, SNAP Listed
Canada – CDSL • Korea – KECl • Australia – AICS
China – CICS • Japan – METI

Approvals

FM Global • UL • Manufactured to ISO9001:2008

Typical Applications

Data processing
Clean rooms
Communications
Heritage preservation
Power generation
Oil and gas

Novec is a trademark of 3M company