



Novec™

Brand

3M™ Novec™ 1230 Fire Protection Fluid protects leading international film studio.

In 2019 the combined theatrical and home/mobile entertainment market globally surpassed \$100 billion.¹ With new online content delivery services becoming available each year and big-budget movies pushing the boundaries of Computer Generated Imagery (CGI) and new production techniques to the limit, protecting data is now more important than ever.

So, when a leading international film studio based in the UK introduced a world-class CGI system to produce its latest films and TV programmes, it became clear that they needed a fire protection solution to protect the valuable data and processes hosted in their datacentre.

The studio decided to install a system using 3M Novec 1230 fluid in its new server room as its fire protection solution.

The design and install of the system were carried out by Sovereign Extinguishing from Bristol, one of the UK's leading experts in fire extinguishing installations and servicing. The certified and approved system installed by the company was supplied by globally recognised Kidde Fire Protection, part of Carrier Global, a leading global provider of healthy, safe and sustainable building and cold chain solutions.

Having worked with Sovereign Extinguishing in the past and having seen first-hand the benefits of these systems, they knew where to turn for assistance in protecting this new site. They had previously experienced a successful system discharge on another site which had given them the confidence and reassurance to work with Sovereign and trust 3M Novec 1230 fluid to protect their data.

The design and installation requirements

The project was delivered in accordance with the site's very strict COVID policy, which meant that the installation team were tested every few days. The system was installed to the studios precise timeframe and as part of the final commissioning, the Room Integrity Test was completed by Sovereign's own in-house Commissioning Team.

As well as confidence in the ability of the product and the system, factors that affected selection included a limited amount of space on site to store a fire extinguishing system. When space is at a premium, fire extinguishing systems that require multiple cylinders can present a challenge.

3M Novec 1230 fluid is stored as a liquid, whereas inert gases or CO₂ are stored as a gas. This means you

need significantly less cylinders to store 3M Novec 1230 fluid, enabling more flexible site selection. For confined spaces, the cylinders can be installed within the protected area, removing the need for a separate storage room. This means in the long run 3M Novec 1230 fluid can help save space and its associated cost.

Systems using 3M Novec 1230 fluid have a much smaller footprint than inert gas systems due to the agent being stored as a liquid and because it uses a much lower design concentration as they extinguish fires by cooling.

In addition to space the system also needed to be sustainable. 3M Novec 1230 fluid offers a sustainable solution with a Global Warming Potential (GWP) <1 and 0 Ozone Depletion Potential (ODP), giving it the highest environmental profile of any synthetic clean agent available today. Due to its five-day atmospheric lifetime, 3M Novec 1230 fluid helps protect the environment, as well as your valuable assets. It's also not subject to the European F-gas Regulation or any other international directive or regulation.

Sovereign Extinguishing's Project Manager explains why they selected 3M Novec 1230 fluid as their extinguishing agent of choice: "This was a great project to be involved with – the sites very strict COVID Security not only meant that the site staff were safe but led to increased testing with our engineers. Using 3M Novec 1230 fluid meant that the design and installation was much easier due to the reduced footprint required and the reduced pipe diameter compared to inert gas, leaving the completed install much cleaner and less obtrusive. The customer was very happy as we installed to their schedule and within the budgeted costs."



Kidde Fire Protection (Kidde Products Limited), a Carrier Global Corporation company.

See how 3M Novec 1230 fluid could protect your data and high value assets

Fire Extinguishing Systems using 3M Novec 1230 fluid are ideal for applications in the protection of data processing equipment in the Film and TV industry. They protect the high value assets and critical processes in making

high value blockbuster movies without the concern of additional damage and downtime.

3M works with the best OEMs and installers capable of meeting the customers' needs in challenging conditions. To speak to a 3M expert or to find out more, please visit our website www.3M.co.uk/Novec1230

1 The Motion Picture Association 2019 THEME Report

3M™ Novec™ Engineered Fluids are designed to balance performance with favourable environmental and worker safety properties. They are available for a wide variety of applications, including heat transfer, cleaning, testing, and lubricant deposition. 3M Novec fluids offer excellent dielectric properties; wide range of boiling points; good materials compatibility; low toxicity and non-flammability; low global warming potential; and zero ozone depletion potential.

The 3M™ Novec™ Brand Family

The 3M Novec brand is the hallmark for a variety of proprietary 3M products. Although each has its own unique formula and performance properties, all Novec products are designed in common to address the need for safe, effective, sustainable solutions in industry-specific applications. These include precision and electronics cleaning, heat transfer, fire protection, protective coatings, immersion cooling, advanced insulation media replacement solutions and several specialty chemical applications.

3M™ Novec™ Engineered Fluids ■ 3M™ Novec™ Aerosol Cleaners ■ 3M™ Novec™ 1230 Fire Protection Fluid ■ 3M™ Novec™ Electronic Grade Coatings ■ 3M™ Novec™ Electronic Surfactants ■ 3M™ Novec™ Insulating Gases

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