3M™ Novec™ 1230 Fire Protection Fluid

**3M™ Novec™ 1230 Fluid Specification**

1. **Summary of work**
	1. Design, supply and install a complete clean agent total flooding fire suppression system using 3M™ Novec™ 1230 Fire Protection Fluid. (Hereafter referred to as SYSTEM)
2. **Clean Agent Fire Suppression Fluid**
	1. Clean agent fire suppression fluid shall be 3M Novec 1230 Fire Protection Fluid
	2. Clean Agent shall have an Ozone Depletion Potential (ODP) of zero. ODP as defined by the US EPA.
	3. Clean Agent shall have a Global Warming Potential (GWP) of < 1 (100 year ITH.) GWP as defined by the intergovernmental Panel on Climate Change Fifth Assessment Report (IPCC AR5) or in US EPA documentation and approvals.
	4. Clean Agent shall not be one of these greenhouse gases or ozone depleters; Perfluorocarbons (PFCs), Hydrofluorocarbons (HFCs), and Hydrochlorofluorcarbons (HCFCs).
	5. Agents will not be restricted for use in fire protection due to its Ozone Depletion Potential (ODP) or Global Warming Potential (GWP) and is not targeted for phase-down by the Montreal Protocol, nor subject to the European F-Gas Regulations targeting the phase-down of production and import of HFCs into Europe; and will not be affected by U.S. EPA SNAP regulations which would render it either unacceptable or acceptable subject to narrow use limits.[[1]](#endnote-1)
	6. Clean Agent must have a minimum safety factor 60% between the design concentration percentage and the No Observed Adverse Effect Level (NOAEL) for Class A and C hazards. For guidance on safety factors for Class B hazards, contact an approved Original Equipment Manufacturer.
	7. After discharge, cylinder shall be refilled with Novec 1230 Fire Protection Fluid

Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory:For regulatory information about this product, contact your 3M representative.

Technical Information:The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M’s control and uniquely within user’s knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user’s method of application.

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Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

1. **Acceptable with Narrowed Use Limits**: For non-residential uses where other alternatives are not technically feasible due to performance or safety requirements: a. because of their physical or chemical properties, or b. where human exposure to the extinguishing agents may result in failure to meet applicable narrowed use limits. [↑](#endnote-ref-1)