



Novec™

Brand

3M™ Novec™ 1230 Fire Protection Fluid

3M™ Novec™ 1230 Fluid Specification

1. Summary of work
 - A. 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
 - A. Clean agent fire suppression fluid shall be 3M Novec 1230 Fire Protection Fluid
 - B. Clean Agent shall have an Ozone Depletion Potential (ODP) of zero.
 - C. 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.
 - D. 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.
 - E. 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.
 - F. The clean extinguishing agent shall have *Component Recognition* per either LPCB 1230, VdS 2344, CNPP or UL 2166 Halocarbon Clean Agent Extinguishing System Units and *Certificate Type Approval* per IMO MSC/Circ. 848 on Revised Guidelines for the Approval of Fixed Gas Fire-Extinguishing Systems. The agent shall have minimum extinguishing concentrations for class A and Class B fuels using the methods detailed in ISO 14520 (Standard covering Gaseous Fire-extinguishing Systems) and UL 2166.
 - G. The clean extinguishing agent shall be included in the ISO 15004 and NFPA 2001.
 - H. The clean extinguishing agent shall have a 20-year protection, valid globally, against regulatory bans or restrictions in use on the global warming potential, ozone depletion and atmospheric lifetime of the agent

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- I. The entity offering the certified and approved system using Novec 1230 Fire Protection Fluid shall be able to demonstrate their relation to 3M and the approved 3M OEM partner.
- J. 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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