

1.7. Clean Agent Systems

1.7.1. Clean Agent

Electrically nonconducting, volatile, or gaseous fire extinguishing agent that does not leave a residue upon discharge.

1.7.2. Clean Agent Concentration

The portion of agent in an agent-air mixture expressed in volume percent.

1.7.3. Halocarbon Agent

An agent that contains as primary components one or more organic compounds containing one or more of the elements fluorine, chlorine, bromine, or iodine.

1.7.4. Inert Gas Agent

An agent that contains as primary components one or more of the gases helium, neon, argon, or nitrogen. Inert gas agents that are blends of gases can also contain carbon dioxide as a secondary component.

1.7.5. Total Flooding Quantity

The amount of halocarbon agent required to achieve the design concentration.

1.7.6. Minimum Design Quantity (MDQ)

The quantity of agent required to achieve the minimum design concentration.

1.7.7. Design Factor

A fraction of the agent minimum design quantity (MDQ) added thereto deemed appropriate due to a specific feature of the protection application or design of the suppression system.

1.7.8. Final Design Quantity

The quantity of agent determined from the agent minimum design quantity as adjusted to account for design factors and pressure adjustment.

1.7.9. Local Application System.

A system consisting of a supply of extinguishing agent arranged to discharge directly on the burning material or equipment.

1.7.10. Pre-Engineered System.

A system having predetermined flow rates, nozzle pressures, and quantities of agent. These systems have the specific pipe size, maximum and minimum pipe lengths, flexible hose specifications, number of fittings, and number and types of nozzles prescribed by a testing laboratory. The hazards protected by these systems are specifically limited as to type and size by a testing laboratory based upon actual fire tests. Limitations on hazards that can be protected by these systems are contained in the manufacturer's installation manual, which is referenced as part of the listing.

1.7.11. Total Flooding System.

A system consisting of an agent supply and distribution network with discharge nozzles designed to achieve a total flooding condition in a hazard volume.