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LUKE 5112

CLEAN AGENT



LUKE 5112 CLEAN AGENT

LUKE 5112 is a trademark of LUKE's FK-5-1-12, Dodecafluoro-2-methylpentan-3-one. FK-5-1-12 is another widely used extinguishing clean agent. It is environmentally safe and best used in fire hazard areas containing A, B, & C classes of fire. It has been approved by US EPA and ISO for its safe characteristic and fire extinguishing effectiveness.

LUKE FK-5-1-12 is an acceptable alternative clean agent for Halon 1301 replacement. Luke Alexander's FK-5-1-12 is guaranteed to meet the minimum NFPA 2001 Requirement as follows.

CLEAN AGENT PROPERTIES	
IUPAC Name	1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone
ASHRAE Designation	FK-5-1-12
Synonym	Dodecafluoro-2-methylpentan-3-one
CAS Registry Number	756-13-8
Chemical Formula	CF ₃ CF ₂ C(O)CF(CF ₃) ₂
Molecular Weight	316.04
Freezing Point	-162.4°F (-108°C)
Boiling Point at 760 mmHg	120.2°F (49°C)
Critical Temperature	335.6°F (168.66°C)
Critical Density	39.91 lbm/ft ³ (639.1 kg/m ³)
Critical Pressure	270.44 psi (1,865 kPa)
Critical Volume	0.0251 ft ³ /lbm (494.5 cc/mole)
Viscosity, Liquid at 77°F (25°C)	1.27 lb/ft-hr (0.524 cP)
Solubility in Water at 70°F (21.1°C)	<0.001% by weight
PROPERTY REQUIREMENT	
Purity	99.0% (minimum)
Water Content (by weight)	0.001%
Non-Volatile Residue (g/100 ml)	0.05
ENVIRONMENTAL IMPACT	
Ozone Depletion Potential (ODP)	0
Global Warming Potential (GWP)	1
Atmospheric Lifetime (ATL)	0.014 years
US EPA SNAP (Yes/No)	Yes

LUKE 5112 Fire Suppression System

LUKE 5112 Clean Agent Fire Suppression System utilizes both pre-engineered and engineered systems.

Luke Alexander manufactures both the system hardwares and the Clean Agents.

Luke Alexander carries a full range of cylinders sizes from 3 lbs up to 1200 lbs.

All the cylinders are UL component recognized, DOT & TPED.

