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UL Product iQ®

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Low-expansion Foam Liquid Concentrate HD AR-AFFF 3x3-C6

File Number: EX15756

COMPANY

HD FIRE PROTECT LIMITED

D-6/2, Road No. 34
Wagle Industrial Estate
Thane, Maharashtra 400604 India

LOW-EXPANSION FOAM LIQUID CONCENTRATE INFO

HD AR-AFFF 3x3-C6
Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)

FOAM CONCENTRATES FOR USE WITH THE FOLLOWING EQUIPMENT

Minimum Storage and Use Temperature

+35 F (1.7 C)

GENERAL

Hydrocarbon Fuels, percent

3

GENERAL

Polar Solvent Fuels, percent

3

PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

Manufacturer and Model	Use Concentration, percent	Size, in.	Orifice Diameter/Setting	Inlet Pressure, psig	Length and Diameter of hose	Discharge Device Manufacturer and Model
Angus Fire (UK), Model UNI225	3	2-1/2	set at 3 AR	93	100ft of 1-1/2	Angus Fire (UK), Model F225U nozzle.

PROPORTIONERS - FIXED IN-LINE INDUCTORS

Manufacturer and Model	Use Concentration, percent	Size, in.	Orifice Diameter, in.	Inlet Pressure, psig	Back Presssure, psig
Angus, Model IND-40	3	1-1/2	0.19	160	87

NOZZLES

Manufacturer and Model	Size, in.	Inlet Pressure, psig	Fuel
Angus Fire (UK), Model F225U	2-1/2	55	--

FIXED FOAM DISCHARGE OUTLETS

Manufacturer and Model	Fuel	Inlet Pressure, psig	Flow Range, gpm	Orifice Diameter, in.	Min Design Application Density, gpm/sq ft
Angus, Model TPS-50MKV	Alcohol	87		0.59	0.16
Angus, Model TPS-50MKV	Alcohol	87		0.59	0.24
Angus, Model TPS-50MKV	Alcohol	87		0.59	0.36
Angus, Model TPS-50MKV	Ethyl Alcohol	87		0.59	0.10
Angus, Model TPS-50MKV	Methyl Alcohol	87		0.59	0.36
HD Fire Protection Pvt Ltd, Model FCA-65, FCA-S-65	Alcohol	40-71	39.62-52.83	0.592	0.16
HD Fire Protection Pvt Ltd, Model FCA-65, FCA-S-65	Alcohol	100	145.29	0.902	0.16
HD Fire Protection Pvt Ltd, Model FCA-80, FCA-S-80	Alcohol	40-71	79.25-105.67	0.831	0.16

FIXED FOAM DISCHARGE OUTLETS

Manufacturer and Model	Fuel	Inlet Pressure, psig	Flow Range, gpm	Orifice Diameter, in.	Min Design Application Density, gpm/sq ft
HD Fire Protection Pvt Ltd, Model FCA-80, FCA-S-80	Alcohol	100	269.72	1.209	0.16
HD Fire Protection Pvt Ltd, Model FCA-100, FCA-S-100	Alcohol	40-71	158.50-210.54	1.181	0.16
HD Fire Protection Pvt Ltd, Model FCA-100, FCA-S-100	Alcohol	100	634.01	1.882	0.16
AG FIRE SPRINKLER SL, Model CES065U and CEI065U	Alcohol	40-71	39.62-52.83	0.592	0.16
AG FIRE SPRINKLER SL, Model CES065U and CEI065U	Alcohol	100	145.29	0.902	0.16
AG FIRE SPRINKLER SL, Model CES080U and CEI080U	Alcohol	40-71	79.25-105.67	0.831	0.16
AG FIRE SPRINKLER SL, Model CES080U and CEI080U	Alcohol	100	269.72	1.209	0.16
AG FIRE SPRINKLER SL, Model CES100U and CEI100U	Alcohol	40-71	158.50-210.54	1.181	0.16
AG FIRE SPRINKLER SL, Model CES100U and CEI100U	Alcohol	100	634.01	1.882	0.16
HD Fire Protection Pvt Ltd, Model FCA-65, FCA-S-65	Alcohol	40-71	39.62-52.83	0.592	0.24
HD Fire Protection Pvt Ltd, Model FCA-65, FCA-S-65	Ethyl Alcohol	40-71	39.62-52.83	0.592	0.10
HD Fire Protection Pvt Ltd, Model FCA-65, FCA-S-65	Methyl Alcohol	40-71	39.62-52.83	0.592	0.10
HD Fire Protection Pvt Ltd, Model FCA-65, FCA-S-65	Alcohol	100	550	0.902	0.24
HD Fire Protection Pvt Ltd, Model FCA-65, FCA-S-65	Ethyl Alcohol	100	550	0.902	0.10
HD Fire Protection Pvt Ltd, Model FCA-65, FCA-S-65	Methyl Alcohol	100	550	0.902	0.10
HD Fire Protection Pvt Ltd, Model FCA-80, FCA-S-80	Alcohol	40-71	79.25-105.67	0.831	0.24
HD Fire Protection Pvt Ltd, Model FCA-80, FCA-S-80	Ethyl Alcohol	40-71	79.25-105.67	0.831	0.10

FIXED FOAM DISCHARGE OUTLETS

Manufacturer and Model	Fuel	Inlet Pressure, psig	Flow Range, gpm	Orifice Diameter, in.	Min Design Application Density, gpm/sq ft
HD Fire Protection Pvt Ltd, Model FCA-80, FCA-S-80	Methyl Alcohol	40-71	79.25-105.67	0.831	0.10
HD Fire Protection Pvt Ltd, Model FCA-80, FCA-S-80	Alcohol	100	269.72	1.209	0.24
HD Fire Protection Pvt Ltd, Model FCA-80, FCA-S-80	Ethyl Alcohol	100	269.72	1.209	0.10
HD Fire Protection Pvt Ltd, Model FCA-80, FCA-S-80	Methyl Alcohol	100	269.72	1.209	0.10
HD Fire Protection Pvt Ltd, Model FCA-100, FCA-S-100	Alcohol	40-71	158.50-210.54	1.181	0,24
HD Fire Protection Pvt Ltd, Model FCA-100, FCA-S-100	Ethyl Alcohol	40-71	158.50-210.54	1.181	0.10
HD Fire Protection Pvt Ltd, Model FCA-100, FCA-S-100	Methyl Alcohol	40-71	158.50-210.54	1.181	0.10
AG FIRE SPRINKLER SL, Model CES065U and CEI065U	Alcohol	40-71	39.62-52.83	0.592	0,24
AG FIRE SPRINKLER SL, Model CES065U and CEI065U	Ethyl Alcohol	40-71	39.62-52.83	0.592	0.10
AG FIRE SPRINKLER SL, Model CES065U and CEI065U	Methyl Alcohol	40-71	39.62-52.83	0.592	0.10
AG FIRE SPRINKLER SL, Model CES065U and CEI065U	Alcohol	100	145.29	0.902	0,24
AG FIRE SPRINKLER SL, Model CES065U and CEI065U	Ethyl Alcohol	100	145.29	0.902	0.10
AG FIRE SPRINKLER SL, Model CES065U and CEI065U	Methyl Alcohol	100	145.29	0.902	0.10
AG FIRE SPRINKLER SL, Model CES080U and CEI080U	Alcohol	40-71	79.25-105.67	0.831	0,24
AG FIRE SPRINKLER SL, Model CES080U and CEI080U	Ethyl Alcohol	40-71	79.25-105.67	0.831	0.10
AG FIRE SPRINKLER SL, Model CES080U and CEI080U	Methyl Alcohol	40-71	79.25-105.67	0.831	0.10
AG FIRE SPRINKLER SL, Model CES080U and CEI080U	Alcohol	100	269.72	1.209	0,24

FIXED FOAM DISCHARGE OUTLETS

Manufacturer and Model	Fuel	Inlet Pressure, psig	Flow Range, gpm	Orifice Diameter, in.	Min Design Application Density, gpm/sq ft
AG FIRE SPRINKLER SL, Model CES080U and CEI080U	Ethyl Alcohol	100	269.72	1.209	0.10
AG FIRE SPRINKLER SL, Model CES080U and CEI080U	Methyl Alcohol	100	269.72	1.209	0.10
AG FIRE SPRINKLER SL, Model CES100U and CEI100U	Alcohol	40-71	158.50-210.54	1.181	0,24
AG FIRE SPRINKLER SL, Model CES100U and CEI100U	Ethyl Alcohol	40-71	158.50-210.54	1.181	0.10
AG FIRE SPRINKLER SL, Model CES100U and CEI100U	Methyl Alcohol	40-71	158.50-210.54	1.181	0.10
HD Fire Protection Pvt Ltd, Model FCA-65, FCA-S-65	Alcohol	40	39.62	0.592	0.36
HD Fire Protection Pvt Ltd, Model FCA-80, FCA-S-80	Alcohol	40	79.25	0.831	0.36
HD Fire Protection Pvt Ltd, Model FCA-100, FCA-S-100	Alcohol	40-71	158.50-210.54	1.181	0.36
HD Fire Protection Pvt Ltd, Model FCA-100, FCA-S-100	Alcohol	100	634.01	1.882	0.36
AG FIRE SPRINKLER SL, Model CES065U and CEI065U	Alcohol	40	39.62	0.592	0.36
AG FIRE SPRINKLER SL, Model CES080U and CEI080U	Alcohol	40	79.25	0.831	0.36
AG FIRE SPRINKLER SL, Model CES100U and CEI100U	Alcohol	40-71	158.50-210.54	1.181	0.36
AG FIRE SPRINKLER SL, Model CES100U and CEI100U	Alcohol	100	634.01	1.882	0.36

FOAM WATER SPRINKLERS

Manufacturer and Model	Fuel	Style	Minimum Pressure, psig
Tyco Fire Products Model REI015U	Alcohol	pendent	30
Tyco Fire Products Model REI015U	Hydrocarbons	pendent	30

FOAM WATER SPRINKLERS

Manufacturer and Model	Fuel	Style	Minimum Pressure, psig
Tyco Fire Products Model REI015U	Denatured EthanolEthanol with up to 25% Hydrocarbon Blend (E85).	pendent	30
Tyco Fire Products Model REI015U	Ethanol with up to 25% Hydrocarbon Blend (E85).	pendent	30
Tyco Fire Products Model REB015U	Alcohol	pendent	30
Tyco Fire Products Model REB015U	Hydrocarbons	pendent	30
Tyco Fire Products Model REB015U	Denatured Ethanol	pendent	30
Tyco Fire Products Model REB015U	Ethanol with up to 25% Hydrocarbon Blend (E85).	pendent	30
Tyco Fire Products Model F1	Alcohol	pendent	30
Tyco Fire Products Model F1	Hydrocarbons	pendent	30
Tyco Fire Products Model F1	Denatured Ethanol	pendent	30
Tyco Fire Products Model F1	Ethanol with up to 25% Hydrocarbon Blend (E85).	pendent	30
Tyco Fire Products Model H	Alcohol	pendent	30
Tyco Fire Products Model H	Hydrocarbons	pendent	30
Tyco Fire Products Model H	Denatured Ethanol	pendent	30
Tyco Fire Products Model H	Ethanol with up to 25% Hydrocarbon Blend (E85).	pendent	30

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