Low-expansion Foam Liquid Concentrate HD AFFF 3-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 AFFF 3-C6
Aqueous Film Forming Foam (AFFF)

FOAM CONCENTRATES FOR USE WITH THE FOLLOWING EQUIPMENT

Minimum Storage and Use Temperature

+35 F (1.7 C)

GENERAL

Hydrocarbon 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 Ltd, Model UNI225	3	2-1/2	set at 3	92.5	148ft of 1-1/2	Angus Fire Ltd, Model F225U nozzle.
Shah Bhogilal Jethalal & Bros, Model AAAG-ILP-225	3	2-1/2	set at 3	100	26ft of 2-1/2	Shah Bhogilal Jethalal & Bros, Model AAAG-LX-225 air aspirating nozzle.
Shah Bhogilal Jethalal & Bros, Model AAAG-ILP-450	3	2-1/2	set at 3	100	26ft of 2-1/2	Shah Bhogilal Jethalal & Bros, Model AAAG-LX-450 air aspirating nozzle.

PROPORTIONERS - FIXED IN-LINE INDUCTORS

Manufacturer and Model	Use Concentration, percent	Size, in.	Orifice Diameter, in.	Inlet Pressure, psig	Back Presssure, psig
Angus Fire Ltd, Model IND-40	3	1-1/2	0.16	142	81
SHAH BHOGILAL JETHALAL & BROS, Model AAAG-ILP-600	3	3	0.728	100	45

PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Manufacturer and Model	Use Concentration, percent	Controller Size, in.	Orifice Diameter, in.	Flow Rate, gpm
Arrow Tank Engineering	3	3	0.354	300 - 900
FIRETECH EQUIPMENT & SYSTEMS PRIVATE LTD	3	2	0.28	39 - 276
FIRETECH EQUIPMENT & SYSTEMS PRIVATE LTD	3	3	0.42	55 -796
FIRETECH EQUIPMENT & SYSTEMS PRIVATE LTD	3	4	0.52	160- 1567
FIRETECH EQUIPMENT & SYSTEMS PRIVATE LTD	3	6	0.82	288 - 2933
FIRETECH EQUIPMENT & SYSTEMS PRIVATE LTD	3	8	1.30	819 - 3691
HD FIRE PROTECT PVT LTD, Models RCF-B,-S and RCW-B,-S	3	2-1/2	0.244	26 - 410
HD FIRE PROTECT PVT LTD, Models RCF-B,-S and RCW-B,-S	3	3	0.335	69 -793
HD FIRE PROTECT PVT LTD, Models RCF-B,-S and RCW-B,-S	3	4	0.555	172 - 1585
HD FIRE PROTECT PVT LTD, Models RCF-B,-S and RCW-B,-S	3	6	0.748	317 - 3170
HD FIRE PROTECT PVT LTD, Models RCF-B,-S and RCW-B,-S	3	8	1.043	726-4718

NOZZLES

Manufacturer and Model	Size, in.	Inlet Pressure, psig	Fuel
Angus Fire Ltd, Model F225U	2-1/2	50	--
Shah Bhogilal Jethalal & Bros, Model AAAG-LX-225	2-1/2	65	--
Shah Bhogilal Jethalal & Bros, Model AAAG-LX-450	2-1/2	65	--

FOAM MONITORS

Manufacturer and Model	Nozzle Model	Nozzle Type	Nozzle Inlet Pressure, psig	Solution Flow, gpm	Fuel
Ag Fire Sprinkler Sl, MV100IU	LMAF-100I-500	Self-Inducting	100	500	--
Ag Fire Sprinkler Sl, MV100IU	LMAF-100I-750	Self-Inducting	100	750	--
Ag Fire Sprinkler Sl, MV100IU	LMAF-100I-1000	Self-Inducting	100	1000	--
Ag Fire Sprinkler Sl, MV100IU	LMAS-100I-500-750 set at 500 GPM	Self-Inducting	100	500	--
Ag Fire Sprinkler Sl, MV100IU	LMAS-100I-500-750 set at 750 GPM	Self-Inducting	100	750	--
Ag Fire Sprinkler Sl, MV100IU	LMAS-100I-750-1000 set at 750 GPM	Self-Inducting	100	750	--
Ag Fire Sprinkler Sl, MV100IU	LMAS-100I-750-1000 set at 1000 GPM	Self-Inducting	100	1000	--
Ag Fire Sprinkler Sl, MV100IU	LMAS-100I-500-1000 set at 500 GPM	Self-Inducting	100	500	--
Ag Fire Sprinkler Sl, MV100IU	LMAS-100I-500-1000 set at 1000 GPM	Self-Inducting	100	1000	--

FOAM MONITORS

Manufacturer and Model	Nozzle Model	Nozzle Type	Nozzle Inlet Pressure, psig	Solution Flow, gpm	Fuel
Ag Fire Sprinkler Sl, MV100IU	LMAS-100I-500-750-1000 set at 500 GPM	Self-Inducting	100	500	--
Ag Fire Sprinkler Sl, MV100IU	LMAS-100I-500-750-1000 set at 750 GPM	Self-Inducting	100	750	--
Ag Fire Sprinkler Sl, MV100IU	LMAS-100I-500-750-1000 set at 1000 GPM	Self-Inducting	100	1000	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-500	Self-Inducting	100	500	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-750	Self-Inducting	100	750	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-1000	Self-Inducting	100	1000	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-V 500-750 set at 500 GPM	Self-Inducting	100	500	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-V 500-750 set at 750 GPM	Self-Inducting	100	750	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-V 750-1000 set at 750 GPM	Self-Inducting	100	750	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-V 750-1000 set at 1000 GPM	Self-Inducting	100	1000	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-V 500-1000 set at 500 GPM	Self-Inducting	100	500	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-V 500-1000 set at 1000 GPM	Self-Inducting	100	1000	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-V 500-750-1000 set at 500 GPM	Self-Inducting	100	500	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-V 500-750-1000 set at 750 GPM	Self-Inducting	100	750	--
Hd Fire Protect Pvt Ltd, Varun 443	Varsha H4-V 500-750-1000 set at 1000 GPM	Self-Inducting	100	1000	--
Newage Fire Protection Industries Pvt Ltd, AFM-500	AFN-500	Self-Inducting	100	500	--
Newage Fire Protection Industries Pvt Ltd, AFM-750-500	AFN-750-500 set at 500	Self-Inducting	100	500	--
Newage Fire Protection Industries Pvt Ltd, AFM-1000-750-500	AFN-1000-750-500 set at 500	Self-Inducting	100	500	--
Newage Fire Protection Industries Pvt Ltd, AFM-1000-750-500	AFN-1000-750-500 J set at 500	JRCP-1000	100	500	--
Newage Fire Protection Industries Pvt Ltd, AFM-750	AFN-750	Self-Inducting	100	750	--
Newage Fire Protection Industries Pvt Ltd, AFM- 750-500	AFN-750-500 set at 750	Self-Inducting	100	750	--
Newage Fire Protection Industries Pvt Ltd, AFM-1000-750-500	AFN-1000-750-500 set at 750	Self-Inducting	100	750	--
Newage Fire Protection Industries Pvt Ltd, AFM-1000-750-500	AFN-1000-750-500 J set at 750	JRCP-1000	100	750	--
Newage Fire Protection Industries Pvt Ltd, AFM-1000	AFN-1000	Self-Inducting	100	1000	--

FOAM MONITORS

Manufacturer and Model	Nozzle Model	Nozzle Type	Nozzle Inlet Pressure, psig	Solution Flow, gpm	Fuel
Newage Fire Protection Industries Pvt Ltd, AFM-1000-750-500	AFN-1000-750-500 set at 1000	Self-Inducting	100	1000	--
Newage Fire Protection Industries Pvt Ltd, AFM-1000-750-500	AFN-1000-750-500 J Set at 1000	JRCP-1000	100	1000	--
Newage Fire Protection Industries Pvt Ltd, AFM-1000	AFN-1000 J	JRCP-1000	100	1000	--
Newage Fire Protection Industries Pvt Ltd, AFM-2000-1500-1000	AFN-2000-1500-1000 J set at 1000	JRCP-2000	100	1000	--
Newage Fire Protection Industries Pvt Ltd, AFM-2000-1500-1000	AFN-2000-1500-1000 Set at 1000	Self-Inducting	100	1000	--
Newage Fire Protection Industries Pvt Ltd, AFM-2000	AFN-1500	Self-Inducting	100	1500	--
NEWAGE FIRE PROTECTION PVT LTD, AFM-2000-1500-1000	AFN-2000-1500-1000 Set at 1500	Self-Inducting	100	1500	--
Newage Fire Protection Industries Pvt Ltd, AFM-2000-1500-1000	AFN-2000-1500-1000 J set at 1500	JRCP-2000	100	1500	--
Newage Fire Protection Industries Pvt Ltd, AFM-2000-1500-1000	AFN-2000-1500-1000 J set at 2000	JRCP-2000	100	2000	--
Newage Fire Protection Industries Pvt Ltd, AFM-2000	AFN-2000 J	JRCP-2000	100	2000	--
Newage Fire Protection Industries Pvt Ltd, AFM-2000-1500-1000	AFN-2000-1500-1000 Set at 2000	Self-Inducting	100	2000	--
Newage Fire Protection Industries Pvt Ltd, AFM-2000	AFN-2000	Self -Inducting	100	2000	--
Shah Bhogilal Jethalal & Bros, AAAG FM 500	500 GPM	Self -Inducting	100	500	--
Shah Bhogilal Jethalal & Bros, AAAG FM 675	675 GPM	Self -Inducting	100	676	--
Shah Bhogilal Jethalal & Bros, AAAG FM 750	750 GPM	Self-Inducting	100	750	--
Shah Bhogilal Jethalal & Bros, AAAG FM 1000	1000 GPM	Self-Inducting	100	1000	--
Shah Bhogilal Jethalal & Bros, AAAG FM 2000	2000 GPM	Self-Inducting	100	2000	--
Shah Bhogilal Jethalal & Bros, AAAG FM 500	750 GPM	For use with Model AAAG 750 JRC	100	500	--
Shah Bhogilal Jethalal & Bros, AAAG FM 500	1000 GPM	For use with Model AAAG 1000 JRC	100	500	--
Shah Bhogilal Jethalal & Bros, AAAG FM 2000	2000 GPM	For use with Model AAAG 2000 JRC	100	2000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750 GPM at 500	Self-Inducting	100	500	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750 GPM at 750	Self-Inducting	100	750	--

Manufacturer and Model	Nozzle Model	Nozzle Type	Nozzle Inlet Pressure, psig	Solution Flow, gpm	Fuel
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750-1000 GPM at 500	Self-Inducting	100	500	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750-1000 GPM at 750	Self-Inducting	100	750	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750-1000 GPM at 1000	Self-Inducting	100	1000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750-1000 GPM at 500	For use with Model AAAG JRC 500	100	500	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750-1000 GPM at 750	For use with Model AAAG JRC 750	100	750	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750-1000 GPM at 1000	For use with Model AAAG JRC 1000	100	1000	--
Shah Bhogilal, AAAG FMV 500-750-1000	500-750-1000 GPM at 500	For use with Model AAAG SINGLE JRC 500-750-1000	100	500	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750-1000 GPM at 750	For use with Model AAAG SINGLE JRC 500-750-1000	100	750	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 500-750	500-750-1000 GPM at 1000	For use with Model AAAG SINGLE JRC 500-750-1000	100	1000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1000	1000-1500-2000 GPM at 1000	100	1000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1500	1000-1500-2000 GPM at 1500	100	1500	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 2000	1000-1500-2000 GPM at 2000	100	2000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1000	1000-1500-2000 GPM at 1000	100	1000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1500	1000-1500-2000 GPM at 1500	100	1500	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 2000	1000-1500-2000 GPM at 2000	100	2000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1000	1000-1500-2000 GPM at 1000	100	1000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1500	1000-1500-2000 GPM at 1500	100	1500	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 2000	1000-1500-2000 GPM at 2000	100	2000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1000	1000-1500-2000 GPM at 1000	100	1000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1500	1000-1500-2000 GPM at 1500	100	1500	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 2000	1000-1500-2000 GPM at 2000	100	2000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1000	1000-1500-2000 GPM at 1000	100	1000	--

FOAM MONITORS

Manufacturer and Model	Nozzle Model	Nozzle Type	Nozzle Inlet Pressure, psig	Solution Flow, gpm	Fuel
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 1500	1000-1500-2000 GPM at 1500	100	1500	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 1000-1500-2000	1000-1500-2000 GPM at 2000	1000-1500-2000 GPM at 2000	100	2000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 2000-3000-4000	AAAG WFMV 2000-3000-4000 GPM set at 2000	For use with Model AAAG SINGLE JRC 2000-3000-4000	100	2000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 2000-3000-4000	AAAG WFMV 2000-3000-4000 GPM set at 3000	For use with Model AAAG SINGLE JRC 2000-3000-4000	100	3000	--
Shah Bhogilal Jethalal & Bros, AAAG FMV 2000-3000-4000	AAAG WFMV 2000-3000-4000 GPM set at 4000	For use with Model AAAG SINGLE JRC 2000-3000-4000	100	4000	--
Vimal Fire Control Pvt Ltd., SHOOTFIRE- 250-500-750-1000 AL	Vimal Fire Control Pvt Ltd., AQUA FOAM NOZZLE -1000 AL	Self- Inducting	100	1000	--

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, Models FCA-65, FCA-S-65	--	40-100	39.62-145.30	0.592-0.902	
HD Fire Protection Pvt Ltd, Models FCA-80, FCA-S-80	--	40-100	79.25-269.72	0.831-1.209	
HD Fire Protection Pvt Ltd, Models FCA-100, FCA-S-100	--	40-100	158.50-634.01	1.181-1.882	
HD Fire Protection Pvt Ltd, Models RPA-65, RPA-S-65	--	40-100	13.21-145.30	0.335-0.902	
HD Fire Protection Pvt Ltd, Model FMA-50 with Model FP-55 discharge device.	--	40-100	19.81-88.5	0.401-0.709	
HD Fire Protection Pvt Ltd, Model FMS-S-50 Foam Maker with FP-S-55 discharge device.	--	40-100	19.81-88.5	0.401-0.709	
HD Fire Protection Pvt Ltd, Model FMA-65 with Model FP-55 discharge device.	--	40-100	39.62-145.30	0.592-0.902	
HD Fire Protection Pvt Ltd, Model FMA-S-65 with Model FP-S-55 discharge device.	--	40-100	39.62-145.30	0.592-0.902	
HD Fire Protection Pvt Ltd, Model FMB-50 with Models FD and SD discharge device.	--	40-100	19.81-88.5	0.401-0.709	
HD Fire Protection Pvt Ltd, Model FMB-S-50 with Model FD-S and SD-S discharge device.	--	40-100	19.81-88.5	0.401-0.709	
HD Fire Protection Pvt Ltd, Model FMB-65 with Model with Models FD and SD discharge device.	--	40-100	39.62-145.30	0.592-0.902	
HD Fire Protection Pvt Ltd, Model FMB-S-65 with Models FD-S and SD-S discharge device.	--	40-100	39.62-145.30	0.592-0.902	
AG FIRE SPRINKLER SL, Models CES065U and CEI065U	--	40-100	39.62-145.30	0.592-0.902	
AG FIRE SPRINKLER SL, Models CES080U and CEI080U	--	40-100	79.25-269.72	0.831-1.209	
AG FIRE SPRINKLER SL, Models CES100U and CEI100U	--	40-100	158.50-634.01	1.181-1.882	
AG FIRE SPRINKLER SL, Models VTFS065U and VTFI065U	--	40-100	13.21-145.30	0.335-0.902	
AG FIRE SPRINKLER SL, Model FES050U with Model FP-55 discharge device	--	40-100	19.81-88.5	0.401-0.709	

FIXED FOAM DISCHARGE OUTLETS

Manufacturer and Model	Fuel	Inlet Pressure, psig	Flow Range, gpm	Orifice Diameter, in.	Min Design Application Density, gpm/sq ft
Model FEI050U Foam Maker with FP-S-55 discharge device.	--	40-100	19.81-88.5	0.401-0.709	
AG FIRE SPRINKLER SL, Model FES065U with Model FP-55 discharge device	--	40-100	39.62-145.30	0.592-0.902	
Model FEI065U with Model FP-S-55 discharge device.	--	40-100	39.62-145.30	0.592-0.902	

FOAM WATER SPRINKLERS

Manufacturer and Model	Fuel	Style	Minimum Pressure, psig
AG Fire Sprinkler SL Model REI015U	Hydrocarbons	pendent	30
AG Fire Sprinkler SL Model REB015U	Hydrocarbons	pendent	30
HD Fire Protect Pvt Ltd, Model F1	Hydrocarbons	pendent	30
HD Fire Protect Pvt Ltd, Model H	Hydrocarbons	pendent	30
Tyco Fire & Building Products, Model B1	Hydrocarbons	pendent	30

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