

	<h1 style="margin: 0;">TECHNICAL DATA</h1>	<h2 style="margin: 0;">APPROVED SPRINKLERS FOR USE WITH FOAM CONCENTRATES</h2>
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The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
 Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

HYDROCARBON FUELS										
	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹
		U.S.	metric ⁴	Upright	Pendent	GPM/FT ²	L/m ²	PSI	(bar)	
Chemguard Foam	1% AFFF Viking F14969 CG - C103	2.8	40.3	VK001	--	.16	6.5	29	2	UL / FM
		4.2	60.0	VK002	--	.16	6.5	12.8	.89	UL / FM
		5.6	80.6	VK100	VK910	.16	6.5	7	.48	UL / FM
		8.0	115.2	VK200	VK202	.22	9.0	7	.48	UL / FM
	3% AFFF Viking F14970 CG - C303	2.8	40.3	VK001	--	.16	6.5	29	2	UL / FM
		4.2	60.0	VK002	--	.16	6.5	12.8	.89	UL / FM
		5.6	80.6	VK100	VK910	.16	6.5	7	.48	UL / FM
		8.0	115.2	VK200	VK202	.22	9.0	7	.48	UL / FM
		11.2	161.3	VK530	--	.32	13.0	7	.48	UL / FM
	3% AFFF - MS Viking F14971 CG - C301MS	16.8	242	VK580	--	.46	18.7	7	.48	UL / FM
		5.6	80.6	VK100	VK910	.16	6.5	7	.48	UL / FM
	3% AR-AFFF Viking F14972 CUG	8.0	115.2	VK200	VK202	.22	9.0	7	.48	UL / FM
		5.6	80.6	VK100	VK910	.16	6.5	7	.48	UL / FM
		8.0	115.2	VK200	VK202	.22	9.0	7	.48	UL / FM
		11.2	161.3	VK530	--	.32	13.0	7	.48	UL / FM
			16.8	242	VK580	--	.46	18.7	7	.48

ALCOHOL FUELS										
	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹
		U.S.	metric ⁴	Upright	Pendent	GPM/FT ²	(L/m) ²	PSI	(bar)	
Chemguard Foam	3% AR-AFFF Viking F14972 CUG	5.6	80.6	VK100	VK910	.24	9.8	16	1.10	UL / FM
		8.0	115.2	VK200	VK202	.29	11.8	11.4	.79	UL / FM
		11.2	161.3	VK530	--	.38	15.5	11	.76	UL / FM
		16.8	242	VK580	--	.55	22.4	9.4	.65	UL / FM

KETONE FUELS										
	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹
		U.S.	metric ⁴	Upright	Pendent	GPM/FT ²	(L/m) ²	PSI	(bar)	
Chemguard Foam	3% AR-AFFF Viking F14972 CUG	5.6	80.6	VK100	VK910	.28/.30*	11.4/12.2*	22/26*	1.52/1.79*	UL / FM
		8.0	115.2	VK200	VK202	.34	13.8	16	1	UL / FM
		11.2	161.3	VK530	--	.41	16.7	12	.83	UL / FM
		16.8	242	VK580	--	.55	22.4	9.4	.65	UL / FM

¹ This chart shows listings and approvals available at the time of printing.
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³ The pressure indicated is the minimum starting pressure required for the sprinkler or nozzle. However, the minimum density shown overrides the minimum starting pressure (depending on head spacing) and cannot be reduced.
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ETHER FUELS

Chemguard Foam	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹
		U.S.	metric ⁴	Upright	Pendent	GPM/FT ²	L/m ²	PSI	(bar)	
		3% AR-AFFF Viking F14972 CUG	5.6	80.6	VK100	--	.26	10.6	12	
8.0	115.2		VK200	--	.30	12.2	12.7	.88	UL / FM	
11.2	161.3		VK530	--	.32	13.0	7	.48	UL / FM	
16.8	242		VK580	--	.46	18.7	7	.48	UL / FM	

ESTER FUELS

Chemguard Foam	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹
		U.S.	metric ⁴	Upright	Pendent	GPM/FT ²	L/m ²	PSI	(bar)	
		3% AR-AFFF Viking F14972 CUG	5.6	80.6	VK100	--	.21	8.5	12	
8.0	115.2		VK200	--	.26	10.6	9	.62	UL / FM	
11.2	161.3		VK530	--	.35	14.2	7	.48	UL / FM	
16.8	242		VK580	--	.46	18.7	7	.48	UL / FM	

DENATURED ALCOHOL

Chemguard Foam	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹
		U.S.	metric ⁴	Upright	Pendent	GPM/FT ²	L/m ²	PSI	(bar)	
		3% AR-AFFF Viking F14972 CUG	5.6	80.6	VK100	VK910	.19	7.7	10.3	
8.0	115.2		VK200	VK202	.24	9.7	8	.55	UL / FM	
11.2	161.3		VK530	--	.34	13.8	8	.55	UL / FM	
16.8	242		VK580	--	.46	18.7	7	.48	UL / FM	

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	TECHNICAL DATA	APPROVED SPRINKLERS FOR USE WITH FOAM CONCENTRATES
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HYDROCARBON FUELS														
National Foam	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)						UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹
		U.S.	metric ⁴	Upright			Pendent			GPM/FT ²	L/m ²	PSI	(bar)	
				VK001	VK325	VK300	VK108	VK130	VK910					
National Foam	1% AFFF	2.8	40.3	VK001 VK325			--			.16	6.5	30	207	UL
		4.2	60.0	VK002 VK325			--			.16	6.5	13	89.6	UL
		5.6	80.6	VK100 VK108 VK130			VK910 VK110 VK132			.16	6.5	7	48.3	UL
				VK300 VK552 VK556			VK102 VK302							
		8.0	115.2	VK200, VK350 VK204 VK350			VK202 VK206 VK352			.22	9.0	7	48.3	UL
				VK560 VK562 VK566			--							
	3% AFFF	2.8	40.3	VK001 VK305			--			.16	6.5	30	207	UL
				VK325			--							
		4.2	60.0	VK002 VK325			--			.16	6.5	13	89.6	UL
		5.6	80.6	VK100 VK108 VK130			VK910 VK110 VK132			.16	6.5	7	48.3	UL
				VK300 VK552 VK556			VK102 VK302							
		8.0	115.2	VK200, VK350 VK204 VK350			VK202 VK206 VK352			.22	9.0	7	48.3	UL
VK560 VK562 VK566				--										
11.2	161.3	VK530 VK531 VK536			--			.32	13.0	7	48.3	UL		
		3% AFFF - MS	5.6	80.6	VK100 VK108 VK130			VK102 VK110 VK132			.16	6.5	7	48.3
VK300 VK552 VK556					VK302									
8.0	115.2	VK200, VK350 VK204 VK350			VK202 VK206 VK352			.22	9.0	7	48.3	UL		
		VK560 VK562 VK566			--									
3% AR-AFFF	5.6	80.6	VK100 VK108 VK130			VK910 VK110 VK132			.16	6.5	7	48.3	UL	
			VK300 VK552 VK556			VK102 VK302								
	8.0	115.2	VK200, VK350 VK204 VK350			VK202 VK206 VK352			.22	9.0	7	48.3	UL	
			VK560 VK562 VK566			--								
11.2	161.3	VK530 VK531			--			.32	13.0	7	48.3	UL		

ALCOHOL FUELS														
National Foam	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)						UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹
		U.S.	metric ⁴	Upright			Pendent			GPM/FT ²	L/m ²	PSI	(bar)	
				VK100	VK108	VK130	VK910	VK110	VK132					
National Foam	3% AR-AFFF	5.6	80.6	VK100 VK108 VK130			VK910 VK110 VK132			.24/.21*	9.8/8.5*	16.5/12.5*	1.14/.86*	UL
				VK300 VK552 VK556			VK102 VK302							
	8.0	115.2	VK200, VK350 VK204 VK350			VK202 VK206 VK352			.29	11.8	11.5	.79	UL	
			VK560 VK562 VK566			--								
11.2	161.3	VK530 VK531 VK536			--			.42	17.1	12	.83	UL		

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National Foam	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)				UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹	
				Upright			Pendent	GPM/FT ²	L/m ²	PSI	(bar)		
		U.S.	metric ⁴										
	3% AR-AFFF	5.6	80.6	VK100	VK108	VK130	--	.21	8.5	12	.83	UL	
				VK300	VK552	VK556							
		8.0	115.2	VK200, VK350	VK204	VK350	--	.26	10.6	9	.62		UL
				VK560	VK562	VK566							
		11.2	161.3	VK530	VK531	VK536	--	.32	13.0	7	.48		UL

KEYTONE FUELS

National Foam	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)						UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹	
				Upright			Pendent			GPM/FT ²	L/m ²	PSI	(bar)		
		U.S.	metric ⁴												
	3% AR-AFFF	5.6	80.6	VK100	VK108	VK130	VK910	VK110	VK132	.28 / .30*	11.4 / 12.2*	22 / 26*	1.52 / 1.8*	UL	
				VK300	VK552	VK556	VK102	VK302							
		8.0	115.2	VK200, VK350	VK204	VK350	VK202	VK206	VK352	.34	13.8	16	1.1		UL
				VK560	VK562	VK566									
		11.2	161.3	VK530	VK531	VK536	--	--	--	.41	16.7	12	.83		UL

ESTERS FUELS

National Foam	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)				UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹	
				Upright			Pendent	GPM/FT ²	L/m ²	PSI	(bar)		
		U.S.	metric ⁴										
	3% AR-AFFF	5.6	80.6	VK100	VK108	VK130	--	.21	8.6	12	.83	UL	
				VK300	VK552	VK556							
		8.0	115.2	VK200, VK350	VK204	VK350	--	.26	10.6	9	.62		UL
				VK560	VK562	VK566							
		11.2	161.3	VK530	VK531	VK536	--	.32	13.0	7	.48		UL

DENATURED ETHANOL

National Foam	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)						UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings / Approvals ¹	
				Upright			Pendent			GPM/FT ²	L/m ²	PSI	(bar)		
		U.S.	metric ⁴												
	3% AR-AFFF	5.6	80.6	VK100	VK108	VK130	VK910	VK110	VK132	.19	7.7	10.3	.71	UL	
				VK300	VK552	VK556	VK102	VK302							
		8.0	115.2	VK200, VK350	VK204	VK350	VK202	VK206	VK352	.24	9.8	8	.55		UL
				VK560	VK562	VK566									
		11.2	161.3	VK530	VK531	VK536	--	--	--	.34	13.8	8	.55		UL

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	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings ¹
		U.S.	metric ⁴	Upright	Pendent	GPM/FT ²	L/m ²	PSI	(bar)	
Fomtec Foam	3% AFFF S Viking Part Nos: AFFF3S/25 AFFF3S/200 AFFF3S/1000 Fomtec Part Nos: F-AFFF3/UL/25 F-AFFF3/UL/200 F-AFFF3/UL/1000	5.6	80.6	VK100	VK102	.16	6.5	7	.48	UL
		8.0	115.2	VK200	VK202	.22	9.0	7	.48	UL
	3% ARC 3x3 S Viking Part Nos: ARC3X3S/25 ARC3X3S/200 ARC3X3S/1000 Fomtec Part Nos: F-ARC3X3S/25 F-ARC3X3S/200 F-ARC3X3S/1000	5.6	80.6	VK100	VK102	.16	6.5	7	.48	UL
		8.0	115.2	VK200	VK202	.22	9.0	7	.48	UL

ALCOHOL FUELS										
	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings ¹
		U.S.	metric ⁴	Upright	Pendent	GPM/FT ²	(L/m) ²	PSI	(bar)	
Fomtec Foam	3% ARC 3x3 S Viking Part Nos: ARC3X3S/25 ARC3X3S/200 ARC3X3S/1000 Fomtec Part Nos: F-ARC3X3S/25 F-ARC3X3S/200 F-ARC3X3S/1000	5.6	80.6	VK100	VK102	.22 / .26*	9.0 / 10.6*	14.5 / 19*	1.0 / 1.31*	UL
		8.0	115.2	VK200	VK202	.29	11.8	12	.83	UL

KETONE FUELS										
	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum ² Application Density		UL Tested ³ Sprinkler Head Pressure		Listings ¹
		U.S.	metric ⁴	Upright	Pendent	GPM/FT ²	(L/m) ²	PSI	(bar)	
Fomtec Foam	3% ARC 3x3 S Viking Part Nos: ARC3X3S/25 ARC3X3S/200 ARC3X3S/1000 Fomtec Part Nos: F-ARC3X3S/25 F-ARC3X3S/200 F-ARC3X3S/1000	5.6	80.6	VK100	VK102	.29	11.8	24	1.66	UL
		8.0	115.2	VK200	VK202	.32	13.0	15	1.03	UL

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