

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

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

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

<sup>1</sup> This chart shows listings and approvals available at the time of printing.  
<sup>2</sup> Density indicated is minimum application density required per UL 162-Foam Equipment and Liquid Concentrate Standard. This density cannot be reduced.  
<sup>3</sup> 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.  
<sup>4</sup> Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.  
 \*Where two values are given, the first value applies to upright sprinklers and the second value applies to pendent sprinklers.



# TECHNICAL DATA

**APPROVED SPRINKLERS  
FOR USE WITH FOAM  
CONCENTRATES**

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## ETHER FUELS

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

## ESTER FUELS

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

## DENATURED ALCOHOL

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

<sup>1</sup> This chart shows listings and approvals available at the time of printing.

<sup>2</sup> Density indicated is minimum application density required per UL 162-Foam Equipment and Liquid Concentrate Standard. This density cannot be reduced.

<sup>3</sup> 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.

<sup>4</sup> Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

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

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

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<sup>3</sup> 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.

<sup>4</sup> Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

\*Where two values are given, the first value applies to upright sprinklers and the second value applies to pendent sprinklers.



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## ETHER FUELS

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

## KEYTONE FUELS

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

## ESTERS FUELS

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

## DENATURED ETHANOL

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

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\*Where two values are given, the first value applies to upright sprinklers and the second value applies to pendent sprinklers.

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		U.S.	metric <sup>4</sup>	Upright	Pendent	GPM/FT <sup>2</sup>	L/m <sup>2</sup>	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	<a href="#">VK100</a>	<a href="#">VK102</a>	.16	6.5	7	.48	UL
		8.0	115.2	<a href="#">VK200</a>	<a href="#">VK202</a>	.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	<a href="#">VK100</a>	<a href="#">VK102</a>	.16	6.5	7	.48	UL
		8.0	115.2	<a href="#">VK200</a>	<a href="#">VK202</a>	.22	9.0	7	.48	UL

ALCOHOL FUELS										
	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum <sup>2</sup> Application Density		UL Tested <sup>3</sup> Sprinkler Head Pressure		Listings <sup>1</sup>
		U.S.	metric <sup>4</sup>	Upright	Pendent	GPM/FT <sup>2</sup>	(L/m) <sup>2</sup>	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	<a href="#">VK100</a>	<a href="#">VK102</a>	.22 / .26*	9.0 / 10.6*	14.5 / 19*	1.0 / 1.31*	UL
		8.0	115.2	<a href="#">VK200</a>	<a href="#">VK202</a>	.29	11.8	12	.83	UL

KETONE FUELS										
	Foam Concentrate	Nominal K-Factor		Sprinkler Identification Number (SIN)		UL Minimum <sup>2</sup> Application Density		UL Tested <sup>3</sup> Sprinkler Head Pressure		Listings <sup>1</sup>
		U.S.	metric <sup>4</sup>	Upright	Pendent	GPM/FT <sup>2</sup>	(L/m) <sup>2</sup>	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	<a href="#">VK100</a>	<a href="#">VK102</a>	.29	11.8	24	1.66	UL
		8.0	115.2	<a href="#">VK200</a>	<a href="#">VK202</a>	.32	13.0	15	1.03	UL

<sup>1</sup> This chart shows listings and approvals available at the time of printing.

<sup>2</sup> Density indicated is minimum application density required per UL 162-Foam Equipment and Liquid Concentrate Standard. This density cannot be reduced.

<sup>3</sup> 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.

<sup>4</sup> Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

\*Where two values are given, the first value applies to upright sprinklers and the second value applies to pendent sprinklers.

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