



# Hale Foam Proportioning System Foam Concentrate Compatibility

These Class A Foam concentrates have been tested and approved for use in all Hale Foam Proportioning Systems: SmartFOAM and FoamLogix®™ models 6.5, 5.0, 3.3, 2.1A, 1.7AHP, and Hale V-Series.

TYPE OF FOAM CONCENTRATE	MANUFACTURER	NAME
<b>CLASS A FOAM</b>		
<b>US Forestry Service Approved</b> - Reference <sup>(1)</sup> and <sup>(2)</sup>	Ansul	SILV-EX Class A Foam Concentrate
	Angus Fire	Forexpan S (0.1%-1.0%)
		Hi-Combat Class A (1st Defense Class A Cold Water Foam)
	Kerr Fire	Kerr Forest Foam (0.1%-1.0%)
	National Foam	Knock-Down
	Solberg	Fire-Brake Class A foam (3150A)
	ICL Performance Products	Phos-Chek® WD881
		First Response
	Chemonics	Fire-Trol Fire Foam 103
		Fire-Trol Fire Foam 104
3M	Light Water FT-1150	
Chemguard	First Class – Class A Foam P/N 5100-307	
<b>Non U.S. Forestry Service Approved</b> - Reference <sup>(1)</sup>	ChemGuard	Class A Plus
	Unifoam Co. Ltd.	UniA 1%
	3M	Light Water SFFF
	National Foam	Responder
	Angus Fire	FirePower Class A
	Fire Response Systems, Inc.	Class A - Fire Stop-R CCR# GOLD7386
	Dr. Stahamer	Sthamex-Class-A Synthetic Class A Foam
<sup>(1)</sup> For use in SmartFOAM and FoamLogix models 6.5, 5.0, 3.3, 2.1A, 1.7AHP and Hale V-Series <sup>(2)</sup> USFS approved foams have been tested for corrosion and biodegradability toxicity by the US Forest Service in addition to the Hale testing described on the following page.		





# Hale Foam Proportioning System Foam Concentrate Compatibility

These Class B Foam concentrates have been tested and approved for use in Hale Foam Proportioning Systems: SmartFOAM and FoamLogix models 6.5, 5.0, 3.3.

TYPE OF FOAM CONCENTRATE	MANUFACTURER	NAME
<b>CLASS B FOAM</b>		
<b>AFFF- Alcohol Resistant Concentrates</b>	3M	3% Alcohol Type AFFF Concentrate (P/N 98-0211-6573-7)
	Ansul	3x3 Low Viscosity Alcohol Resistant Concentrate
		T'storm ATC AR-AFFF 1% or 3%
	ChemGuard	AR 3%-6% Part # CAR36P
		AR-AFFF, 3%x3%, Part # C333
		Ultraguard 1%-3% Part # C133
		3%-6% AR-AFFF Product # C361
		3%-6% AR-AFFF Product # C363
	National Foam	Universal Gold 3% AR-AFFF
		Universal Gold 1% - 3% AR-AFFF
	US Foam	1-3% Alcohol Resistant AFFF (P/N US- AR13)
		3-6% Alcohol Resistant AFFF (P/N US-FCAR36)
Angus Fire	Niagara 3-3 – AR-FFFF (Class B)	
Solberg	Arctic Foam RF 3x6 ATC – Synthetic AR Foam Concentrate (Class B)	
Williams fire	ThunderStorm® ATC AR-AFFF 1% or 3% F-601B	
<b>AFFF</b>	National Foam	1% Aero-Water
<b>SPECIALTY FOAM CONCENTRATES</b>		
<b>Protein</b>	National Foam	Terra Foam 3% CF
	Chemonics	Durra Foam 3%
<b>FIRE FIGHTING WATER ADDITIVE</b>		
	Hazard Control Tech.	F-500 (1%, 3%, 6%)
	SPL Control LLC	Pyrosolv (FF Agent – 6% Solution) P/N-720328 (MSDS#)
	Novacool	UEF 0.4%
	Fire Blockade	Fire Extinguishing Agent, 0.4 - 6.0% No. 3000-1003
	FireAde 2000	Fire Fighting Emulsifier 0.25-6% P/N FA2000-5
	FIRE CAP Fire Suppression Products, Inc	Fire Cap 0.25%-6%
	Verde Environmental Inc.	Micro-Blaze Out 2-3%
	Bio Ex S.A.S	Bio for N – FSFF (Fluoro Surfactant Free Foam) Wetting Agent. (Class A)
		Ecopol AR-FFF (Fluoro compound-Free Foam) (Class B)





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The above foam concentrates have been tested by Hale Products in a Hale SmartFOAM/FoamLogix® system to ensure compatibility with Hale SmartFOAM/FoamLogix® models 6.5, 5.0, and 3.3 Foam Proportioning Systems. These Chemicals were ran for several hundred hours over several months under nominal conditions to make sure they do not harm the Foam System. This list is solely intended to assist the end user in selection of foam concentrate(s) compatible with a Hale SmartFOAM/FoamLogix® Model 6.5, 5.0, and 3.3 and is not a determination of the fire fighting effectiveness of one product over another. Always consult with NFPA standards, U.L. Listings, Federal, State, and local regulations, and requirements pertaining to application and environmental regulations before selecting a foam concentrate. Some of the foam chemicals listed may require special hardware considerations. (Refer to SmartFOAM/FoamLogix® user manual for additional information). Many Fire Fighting Foam Chemical Manufacturers have specific instructions on handling and use of their products including, but not limited to, shelf life, tank life, temperature limits, and intervals between use. Always follow manufacturer's instructions for use.

This bulletin applies to Hale SmartFOAM/Foamlogix® foam pumps built after April 17, 1997. For Hale FoamMaster foam pumps built prior April 17, 1997 refer to Bulletin 650, Rev 2.

If a particular foam concentrate you wish to use does not appear on this list, please contact your Hale representative for information concerning compatibility with Hale SmartFOAM/FoamLogix® Foam Proportioning System. As further testing is completed, Hale Products Inc. updates this list and expands capabilities and features to keep the Hale SmartFOAM/FoamLogix® the best system available for all the fires you fight.

Revision	Date	By	Description
J	12-14-2015	AMS	Changed "Solberg Scandanavian AS" to "Solberg".
H	11-18-2015	AMS	Added Kerr Forest Foam. Solberg Fire-Brake moved to USFS approved.
G	11-5-2015	AMS	Changed 3M Fire-Brake to Solberg Fire-Brake.
F	10-29-2015	AMS	Updated Class A list.
E	05-01-2015	JCVM	Preliminary Release.

