



11/5/13

## Water Enhancers (Gels) for Wildland Fire Management

**Qualified By US Forest Service in Accordance with Forest Service Specification 5100-306A as Amended**

These products are evaluated and qualified only at the specified mix ratio range and only for use with the indicated application.  
Consult individual agencies for specific policies relating to water enhancer use. Please review the Notes for Selection and Use.

Chemical	Mix Ratio <sup>1</sup>		Qualified Applications <sup>2</sup>				
			Fixed-Wing Airtanker		Helicopters		Ground Engine
			Multi Engine	SEATS	Fixed-Tank	Bucket	
<b>Uncolored</b>							
Chemdal Aqua Shield 100	0.4%–1.2%	[0.03-0.10 lb/gal]	3	●	-	●	●
Sold as Phos-Chek AquaGel-K	0.4%–1.2%	[0.03-0.10 lb/gal]	3	● 4	-	●	●
Sold as FireOut Ice	0.4%–1.2%	[0.03-0.10 lb/gal]	3	●	-	●	●
Barricade II	1.0%		3	● 4	-	●	●
Barricade II	1.0%–3.0%		-	-	-	●	●
Thermo-Gel 200L	0.5%–3.0%		3	● 4	-	●	●
Thermo-Gel 500P	0.4%–0.5%	[0.03-0.04 lb/gal]	3	● 4	●	●	●
Thermo-Gel 500P	0.4%–1.2%	[0.03-0.10 lb/gal]	3	● 4	-	●	●
Wildfire AFG Firewall II	0.25%–3.0%		3	● 4	●	●	●
BioCentral Blazetamer 380	0.65%		3	●	●	●	●
GelTech FireIce	1.4%–2.1%	[0.12–0.18 lb/gal]	3	● 4	-	●	●
Phos-Chek Insul-8	0.37%		3	●	●	●	●
Phos-Chek Insul-8	0.37%-1.0%		3	●	-	●	●
Phos-Chek Insul-8	0.37%-3.0%		-	-	-	●	●
Thermo-Gel 300L	0.5%–3.0%		3	● 4	-	●	●
<b>Colored</b> – Specific colors are evaluated for use with specific products. Using a color qualified with one product in another product without further testing does not make a qualified product.							
Thermo-Gel 200L AV-B1 (Blue)	0.5%–3.0%		3	●	-	●	●
<b>Notes</b>							
1	Each product is qualified for the specified mix ratio or range. Mixtures <b>outside the mix ratio or mix ratio range shown</b> are <b>not</b> qualified for use. Mix ratio is described as the percentage of product in water. Mix ratios for dry concentrates may also be described as pounds of concentrate added to 1 gallon of water. This description is shown in brackets.						
2	Qualification Notes						
	<ul style="list-style-type: none"> <li>● Fully Qualified – Product complies with all requirements of a formal specification.</li> <li>○ Conditional Approval – Product complies with all requirements in the specification for laboratory evaluation; a field evaluation is required for full qualification. Evaluations from the field are requested regarding effectiveness, ease of use and mixing. (Evaluation forms are available at <a href="http://www.fs.fed.us/rm/fire/wfcs/tests/index.htm">www.fs.fed.us/rm/fire/wfcs/tests/index.htm</a>. Select "Water Enhancer Evaluation" under Section 12 – Operational Field Evaluation Test.)</li> <li>- Not qualified for this application.</li> </ul>						
3	Forest Service policy does not allow application of water enhancers from large airtankers. These products meet the requirements for application from multi-engine aircraft for those agencies whose policy permits this use.						
4	Colored experimental products may be used within a controlled study to determine visibility as required by the specification.						