

STRONG WATER **GUARDIAN**

Technical Data Sheet

Strong Water is a biodegradable, non-toxic, and environmentally friendly water enhancer designed for efficient fire suppression. Its Dynamic Viscosity Properties cause the inline mixture to thin out like water, and gel up after it hits surfaces, without any clogging issues. Superior sag-resistance allows Strong Water to cling on surfaces and wrap vegetation for maximum fire-smothering efficiency. When used in many ground-based applications, it's compatible with standard equipment and easily mixes via proportioner with water for rapid deployment, ensuring safety and effectiveness in every situation.

Physical Properties

| | |
|--------------------------|------------------------|
| Specific Gravity @ 25°C | 1.05 |
| Appearance | Milky Liquid |
| Viscosity of Concentrate | 2500-3500 mPas |
| Viscosity of Mixture | 100,000 – 300,000 mPas |

Main Features:

Simple to Use – The concentrate is easily mixed with water, and it disperses into water within seconds. High-pressure mixing allows for low viscosity, making pump systems a great option for large-volume output.

Easy to Dispense – Unlike other water enhancers, the mixture can be applied via all standard nozzle configurations if used for ground support or quickly dropped from varying payload sizes in the air.

Flexibility – The sag-resistant formula clings to vertical surfaces and wraps vegetation, providing superior fire-smothering performance in the most challenging environments.

Application:

Premix – Ideally, prepare the concentrate by mixing or agitating with a high-speed mixer, especially if there is thin film separation. After a few moments, you should notice the material is milky white.

Mixing – Mix the material w/w for about 1.25-1.5% concentrate to water. The mixture should thicken to a paste-like material after a short interval. Mixing times may vary depending on conditions and concentrate added.

Application – Apply generously to the targeted area with a high-pressure spray system. The material will thin out, allowing it to be sprayed, similarly to water. Once the mixture is applied, you will notice a gelling effect take place. Seamless integration with standard firefighting equipment, including midship mounted pumps, portable pumps on Type 1 to Type 6 engines,

proportions, monitors, and common nozzle configurations such as fog or straight stream nozzles.

Clean-up – Simply use water to remove from the applied location, along with manual removal. For cleaning lines or hoses, a saltwater mixture or solvent such as isopropanol will reduce cleanup time. Make sure to recycle any solvents if used during the purging process. There should not be any gumming in the lines after use.

Shelf Life and Storage:

Shelf life is six years from the date of shipment while kept in a dry, well-ventilated area, between 41°F – 86°F (5°C – 30°C) and unopened.

Packaging:

5-Gallon Pails

55-Gallon Drums

275-Gallon Totes

Health & Safety:

While this material is non-toxic, non-carcinogenic, and Prop-65 free, please review the SDS for additional information regarding Health and Safety.

In Case of Questions or Emergencies: Contact our support team at **800-880-5022** or visit <https://strongwatertech.com>.

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