



## Wildfire suppressant rheology. Mapping viscosity as a function of product mix ratios

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Abstract: The USDA Forest Service's Qualified Product List (QPL) provides guidance on the range of permissible mix ratios for water-enhancer products. Due to the proprietary nature of water-enhancer products, there are several unknowns about the rheology of the permissible mix ratios. This study focused on mapping the viscosity of various suppressant products as a function of their mix ratios. The results revealed a wide range of viscosities across products, with each product showing a different non-linear relationship with different mix ratios. The results from this study can help understand the optimum viscosity range to achieve desired drop characteristics during aerial operations.

### Documents



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