



# Evaluation of Wildland Fire Chemicals

## STANDARD TEST PROCEDURES

### Enhanced Water Mixture Evaporation Rate

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**Summary:** A petri dish or other similar container, filled to a known depth with test product can be dried to constant weight at a moderate temperature in a drying oven. The time required to reach constant weight can be compared to the performance of other products.

**Equipment:**

Disposable petri dish, about 3.5 inches in diameter and 0.5 inch tall  
Balance, readable to 0.001 grams  
Drying oven

**Test Method:**

1. Weigh an empty petri dish, about 3.5 inches in diameter and 0.5 inch tall with straight sides.
2. Put a measured depth of water enhancer mixture in the petri dish and tilt slightly to spread evenly. The amount of water enhancer will be varied to approximate enhancer layers of 0.1 inch, 0.25 inch, and 0.5 inch.
3. Weigh the petri dish and water enhancer mixture.
4. Place the petri dish and water enhancer mixture in a drying oven at 100 °F.
5. Record the weight of the petri dish and water enhancer mixture at 30-minute intervals until 8 hours have passed or the weight remains constant.
6. Prepare a graph of weight versus time of drying for each trial.