

**WATER ENHANCER**  
**TECHNICAL DATA SHEET –THICKENED PRODUCTS – PART 2**  
Ref: FSM 5160

**Product Name:** \_\_\_\_\_

**Submitting Company:** \_\_\_\_\_

**Formulation Identification:** \_\_\_\_\_

**Mix Ratio Range:** \_\_\_\_\_ lb/gal H<sub>2</sub>O      OR      \_\_\_\_\_ gal/gal H<sub>2</sub>O (Fill in one blank.)  
**If the submitted product is the result of a chemical reaction, provide information explaining the reaction process and typical residual quantities of the reaction ingredients. (Attach a separate sheet if needed.)**

**Provide the data, graphs, or tables listed below for each mix ratio for which evaluation has been requested.**

*Measure viscosity using a Brookfield rotational viscometer (or equivalent) at 60 rpm. Use spindle 2 for viscosities between 1 and 500 centipoise and spindle 4 for viscosities greater than 500 centipoise.*

1. **A graph of water enhancer mixture viscosity versus time since mixing, at a temperature test of 70 °F (21 °C). At a minimum, include viscosity at 10 minutes, 30 minutes, 60 minutes, 4 hours, 8 hours, and 24 hours, after mixing.**
2. **A table of enhanced water mixture viscosity versus temperature of water used for mixing. Viscosity shall be measured at 10 minutes, 30 minutes, 1 hour, and 24 hours following mixing. Temperatures of the tap water used for mixing shall be 40 °F (4 °C), 70 °F (21 °C), and 100 °F (38 °C).**
3. **A table of enhanced water mixture viscosity at 70 °F (21 °C), 1 hour and 24 hours following mixing, versus the mix ratio. Provide data for the product concentrations as follows: 0.25, 0.5, and 0.75 percent below the target mix ratio and 0.25, 0.5, and 0.75 percent above the target mix ratio. For example, if the target mix ratio is 2.0 percent, include data for solutions at 1.25 percent, 1.5 percent, and 1.75 percent, 2.0 percent, 2.25 percent, 2.5 percent, and 2.75 percent.**
4. **A table of hardness and conductivity versus viscosity of the enhanced water mixture at 70 °F (21 °C) for 10 minutes, 30 minutes, 45 minutes, and 1 hour after mixing.**
5. **Other data or information related to product stability and/or flow characteristics that might be helpful during the evaluation.**

**BURDEN AND NONDISCRIMINATION STATEMENTS**

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0182. The time required to complete this information collection is estimated to average 2.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call toll free (866) 632-9992 (voice). TDD users can contact USDA through local relay or the Federal relay at (800) 877-8339 (TDD) or (866) 377-8642 (relay voice). USDA is an equal opportunity provider and employer.