



ARC-HW™

Product Data Sheet

Delivering Tomorrow's Fluid Technologies Today

Description

Viscosifier

ARC-HW™ is an ultrahigh molecular weight hydroxyethylcellulose (HEC). It has been manufactured specifically for use as a viscosifier in water based fluids. **ARC-HW™** will viscosify clear brine fluids ranging from 9 lb/gal sodium chloride (NaCl) to high weight calcium and/or zinc bromide mixtures. **ARC-HW™** is dispersible and can be added rapidly to the base fluid without lumping. **ARC-HW™** gels are clear and essentially residue free.

Properties

| | | | |
|---------|-----------|------------------|-----------------------------|
| Form: | Powder | Chemical Family: | Cellulose |
| Color: | Off white | Solubility: | Forms a gel in water |
| Odor: | Mild | Wt. per Gal.: | 44 lbs. per ft ³ |
| Charge: | Non ionic | Flash Point: | None |

Application

ARC-HW™ is designed for batch mixed gels with continuous circulation.

Add **ARC-HW™** through the hopper. **ARC-HW™** is typically used at 1.0 – 2.5 ppb. The table below can be used to determine the amount of **ARC-HW™** required for a particular viscosity, in water.

| | | | | | |
|----------------------------|------------|------------|------------|------------|------------|
| <u>ARC-HW™, ppb</u> | <u>0.4</u> | <u>1.0</u> | <u>1.5</u> | <u>2.0</u> | <u>2.5</u> |
| Viscosity, cP* | 5 | 20 | 35 | 52 | 83 |

* as measured using a Fann Model 35A 300RPM

Compatibility

ARC-HW™ is nonionic.

ARC-HW™ is compatible with most additives.

Handling and Storage

*** Refer to Material Safety Data Sheet . . .**

Store in a dry location. Opened bags should be tightly resealed. **ARC-HW™** is non-toxic and virtually harmless. The dust may be irritating to the eyes and nose. A paper dust mask, safety glasses and cloth gloves are recommended during handling. Refer to the Material Safety Data Sheet for more detailed information.

Packaging

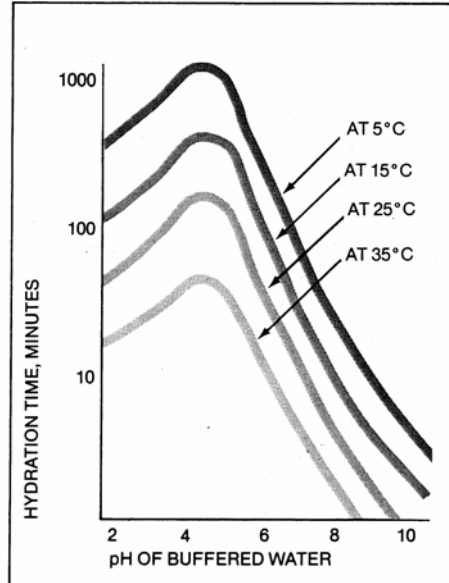
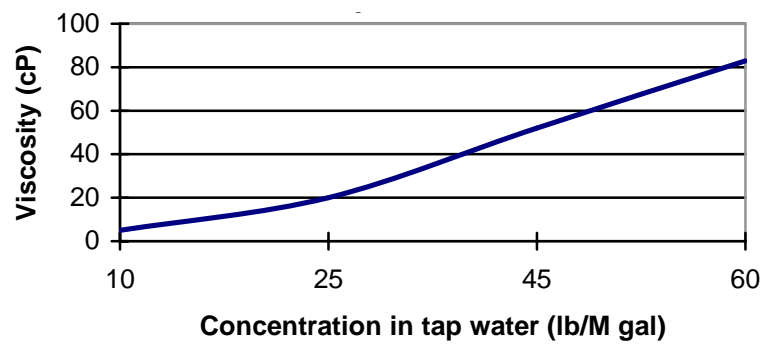
Specialty packaging is available . . .

ARC-HW™ is packaged in 50 lb. bags, 40 bags per pallet, 2000 lb. per pallet, stretch wrapped.

Performance

Viscosity and hydration curves.

ARC-HW™ Viscosity Curve Fann 35 R1B1 300 RPM Room Temperature



Hydration time of **ARC-HW™** as a function of pH and temperature

Questions & Answers

ARC Fluid Technologies, LLC "Offering You Tomorrow's Solutions Today"

If you would like to know more about the ARC Micro-solution Technologies and how it can improve your well performance please contact us at:

ARC Fluid Technologies, LLC

P.O. Box 6669

Kingwood, Texas

USA 77325-6669

Continental USA and Canada Toll Free: 1-866-800-8016

24 Hours:

+1-713-331-0534

Fax:

+1-281-360-6959

E-mail:

arcsolutions@arcfluids.com

Web:

www.arcfluids.com

No claim of personal safety is intended nor implied by the use of the name Safe in this product. Personnel handling this material should read and follow all safety and handling procedures set forth on the Material Safety Data Sheet.