

## DESCRIPTION

Gel Breaker 710E is an encapsulated oxidizing breaker used in hydraulic fracturing applications. Gel Breaker 710E slowly releases ammonium persulfate into the fracturing fluid. This allows the break of the fracturing fluid to be delayed. Higher breaker concentrations can be added to the fracturing fluid without compromising fluid rheology. Since Gel Breaker 710E is a solid, breaker will not be lost to the formation during fluid leak-off. Combining the higher breaker concentrations and not losing breaker to the formation, improved fracture conductivity can be attained using Gel Breaker 710E.

## ADVANTAGES

- Increased break times can be obtained.
- Higher concentrations can be used without compromising fluid viscosity during proppant placement.
- Solid breaker which will concentrate in the proppant pad during fluid leak-off.
- Increased conductivity of the created fractured by:
  - Clean-up of proppant pack
  - Breaking of filter cakes from linear or borate crosslinked fluids.

## PHYSICAL PROPERTIES

**APPEARANCE:** Off White Granules  
**ODOR:** Faint Organic Odor  
**SPECIFIC GRAVITY:** 1.72  
**BULK DENSITY:** 56 to 64 lb/ft<sup>3</sup>  
**SOLUBILITY IN WATER:** Partially

## APPLICATION

- Gel Breaker 710E can be directly substituted into fluids using activated persulfate breakers for applications between 130 -200° F. (Actual Fluid Temperatures)
- Break guar and derivatized guar based fracturing fluids such as:
  - Linear gel fluids
  - Borate or organometallic crosslinked fluids
  - Foams
- Breaker will concentrate in fracture and break filter cakes from linear or borate crosslinked fluids.
- Release Profile at 150°F (Figure 1)
- Viscosity Profiles at 150°F (Figure 2)

## HANDLING AND STORAGE

Refer to Material Safety Data Sheet (MSDS) for handling and hazard data. Packaged in 50lb quantities in lined open top drums.

[www.fracchem.com](http://www.fracchem.com)

Louisiana | Texas | Pennsylvania | Wyoming | North Dakota

Tel: 337-504-4615 IFax: 337-504-5269 | Email: [info@fracchem.com](mailto:info@fracchem.com)

Recommendations given in this bulletin are based on tests believed to be reliable. However, the use of the information is beyond the control of FRAC-CHEM and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.

# PRODUCT DATA SHEET

FIGURE 1

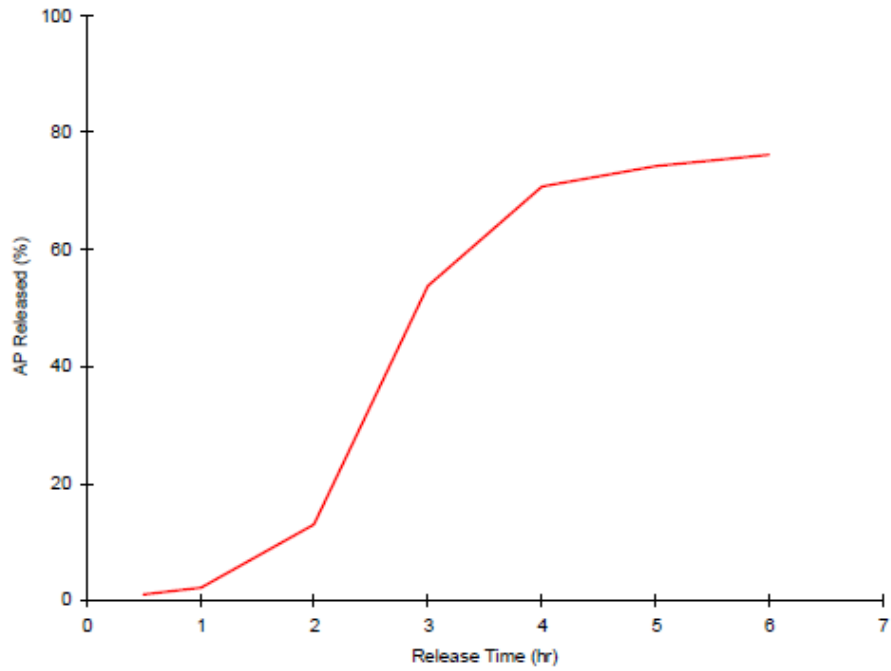
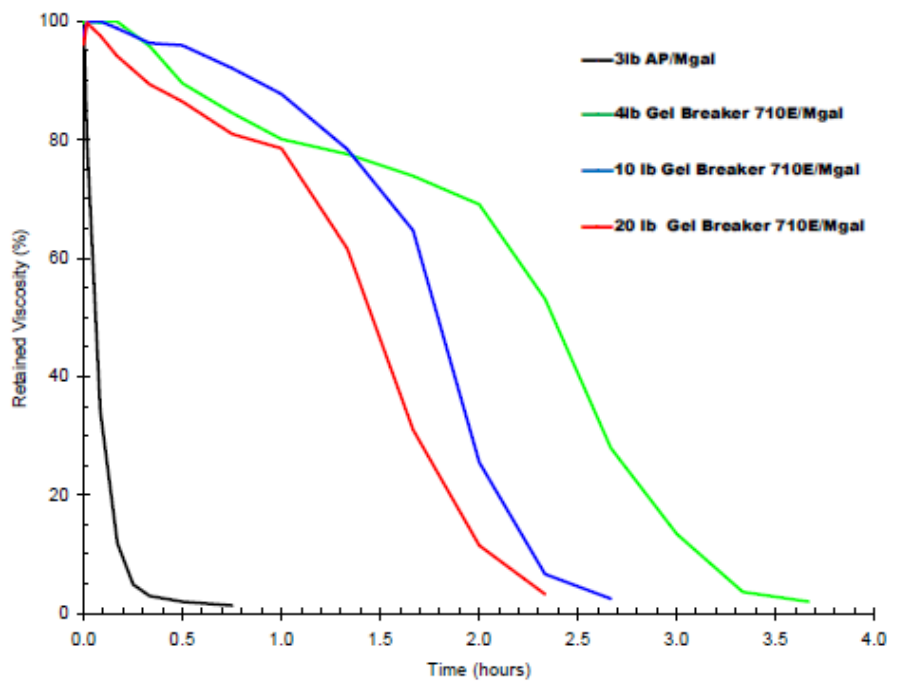


FIGURE 2



[www.fracchem.com](http://www.fracchem.com)

Louisiana | Texas | Pennsylvania | Wyoming | North Dakota

Tel: 337-504-4615 IFax: 337-504-5269 | Email: [info@fracchem.com](mailto:info@fracchem.com)

Recommendations given in this bulletin are based on tests believed to be reliable. However, the use of the information is beyond the control of FRAC-CHEM and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.