

## Further Ultra-high Temperature Products will be Introduced Soon

With the new product Allessan® UTF-S, AllessaChemie GmbH recently introduced an ultra-high temperature fracturing fluid in the market. However, this development based on fully synthetic polymers represents only the first step. Currently, AllessaChemie GmbH develops a range of Allessan® polymers and additives for

- **ultra-high** temperature fracturing
- **improved** water control
- **ultra-high** temperature acid gellants
- **coated** proppants

AllessaChemie GmbH offers an extensive knowledge in oil-field polymers and additives. Since the early seventies, we deliver high-performance products.

## AllessaChemie Links for Success

AllessaChemie GmbH, based in Frankfurt-Fechenheim (Germany), is a competent and reliable production partner of organic intermediates and end products. The company was founded on July 1, 2001 by taking over the locations Frankfurt-Fechenheim, Offenbach and some units of the Frankfurt-Griesheim site from Clariant GmbH, which in turn had acquired the fine chemical business from Hoechst AG in 1997. AllessaChemie's product portfolio comprises a broad spectrum of intermediates which are used by the specialty chemicals industry. In addition, the company produces various specialty chemicals for final processing by the customer, which are specifically tailored to the customer's needs.



## Allessan® UTF-S – Ultra-high Temperature Fracturing in Oilfields



## Fracturing up to 470°F

The new fracturing fluid Allessan® UTF-S is based on fully synthetic polymers. No common temperature-sensitive natural products like Guar or CMC systems are included. As a result, the new Allessan® UTF-S offers numerous advantages:

- **Ultra-high** temperature stability up to 470°F (240°C) allows use in wells that were untreatable before
- **Easy-to-handle** liquid 25% emulsion leads to an easier handling in the field, compared to the traditionally used powders, which require difficult mixing.
- **Works** perfectly with standard crosslinkers and breakers
- **Works** with all known proppants like ceramics (coated and uncoated), glass or sand
- **Very** fast and reliable inversion within a few minutes

## Product Range and Characteristics

AllessaChemie GmbH offers Allessan® UTF-S which is based on synthetic polymers. This is the key to ultra-high temperature stability.

**Allessan® UTF-S** is free of Guar or CMC systems and entirely based on synthetic polymers. It contains a patented stabilizer, which boosts the temperature range additionally.

Compared to other fracturing fluids, it possesses therefore an unparalleled temperature resistance up to approx. 470°F (= approx. 240°C) and maximum performance under working conditions in the field.

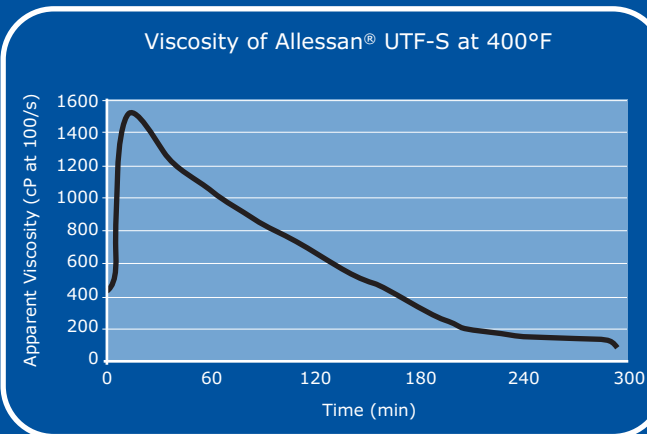
Allessan® UTF-S have been proven to perform in sub-zero temperatures. It is storable over several months.

## Application and Delivery Forms

Allessan® UTF-S is offered as an emulsion that can be easily inverted in the field. After inversion, the products are cross-linked with inorganic derivatives and can be used immediately. Allessan® UTF-polymers are degraded with standard breakers after fracturing.

AllessaChemie GmbH is able to supply Allessan® UTF-S in large-scale quantities. Our current capacity allows the production up to 1 million gallons per year and can be easily expanded.

Delivery form: IBC container as a 25% emulsion



*Allessan® UTF-S is delivered in IBC Container in liquid form as a 25 % emulsion*

