

Tylose®

for the Oil and Gas Industry



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Tylose HEC is used by the oil and gas industry for various applications such as rheology modification in fluids for drilling and completion of petroleum and natural gas wells. Furthermore, Tylose is used in hydraulic fracturing processes and it is an effective fluid-loss additive in well cements. Tylose HEC is compatible with most additives such as biocides, antifoaming agents, oxygen scavengers, fluid loss control additives and retarders. As a naturally derived polymer, it is easily biodegradable.



Drilling and Completion Fluids

Tylose HEC grades are used as viscosifiers in drilling fluids, particularly in heavy brines for completion and workover operations. Since Tylose HEC forms stable solutions with high salt concentrations, it is perfectly suitable for the viscosifying of these fluids. Use of Tylose HEC gives other benefits, such as higher drilling rates and increased oil production and it is easily degradable with chemical and enzyme based breakers.

Recommended Grades

Tylose grades	Viscosity Range (mPas)*
Tylose HS 30000 YP2	1500 – 2500
Tylose HS 100000 YP2	3800 – 5000
Tylose EHH	4400 – 6500

*Brookfield LV, 1.0 % absolutely dry, 25 °C, deionised water

Cementing

Wells are often expected to produce hydrocarbons for a long period of time, which is only achievable with proper cementation of the well casing. Tylose® HEC adds important properties to the cement slurry. It minimises fluid loss, enhances retardation of the slurry and modifies its rheology. Moreover it provides free water control and is compatible with common cement additives. Innovative Tylose HEC grades are suitable for use even in high temperature environments.

Recommended Grades

Tylose grades	Viscosity Range (mPas)**
Tylose HC 50 NP2	50 – 120
Tylose H 200 NP2	150 – 300
Tylose HS 250 YG4	250 – 400
Tylose H 300 P2	400 – 700
Tylose HS 6002 YP2	4500 – 6000

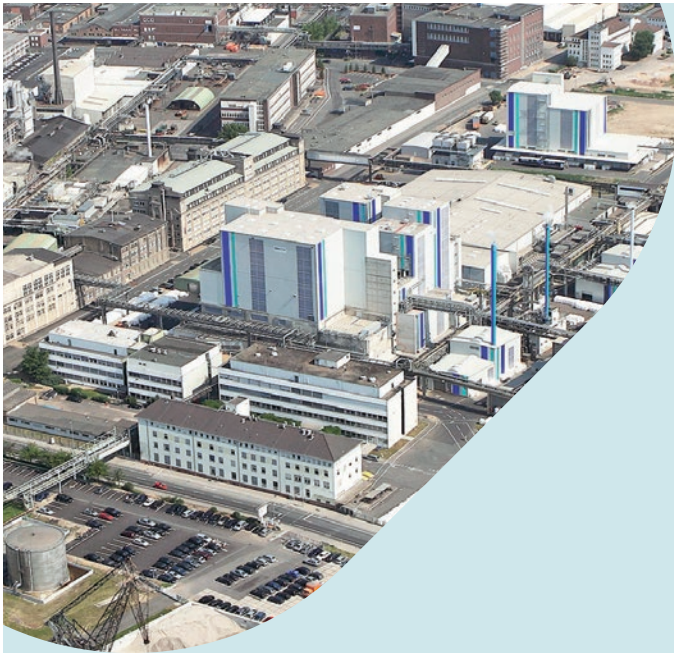
**Brookfield LV, 2.0 %, absolutely dry, 25 °C



Fracturing

Hydraulic fracturing enables production of natural gas from unconventional reservoirs but also enhances well productivity in conventional formations. High viscosity Tylose grades can be cross-linked with various metal ions and are able to modify the rheology of fracturing fluids to transport proppants into the wellbore. After fracturing is completed, Tylose can easily be removed by chemical or enzymatic degradation, leaving no pore-plugging residues. This facilitates the wellbore clean-up and enhances operational efficiency.

For more information on Tylose grades for hydraulic fracturing operations, please contact us.



Company Address

SE Tylose GmbH & Co. KG
Industriepark Kalle-Albert
Kasteler Straße 45
65203 Wiesbaden
Germany

Phone +49 611 962 - 04
Internet www.SETylose.com



Product Safety

E-Mail Product.Safety@SETylose.com

Technical Sales Support

E-Mail info@SETylose.com

About us

SE Tylose GmbH & Co. KG is one of the major manufacturers of cellulose ethers world-wide, supplied under the brand name Tylose®. Tylose is used in a wide variety of products and applications.

Applications

- ▶ Building Materials
- ▶ Paints
- ▶ Ceramics
- ▶ Polymerisation
- ▶ Personal Care
- ▶ Home Care
- ▶ **Oilfield**
- ▶ Others

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