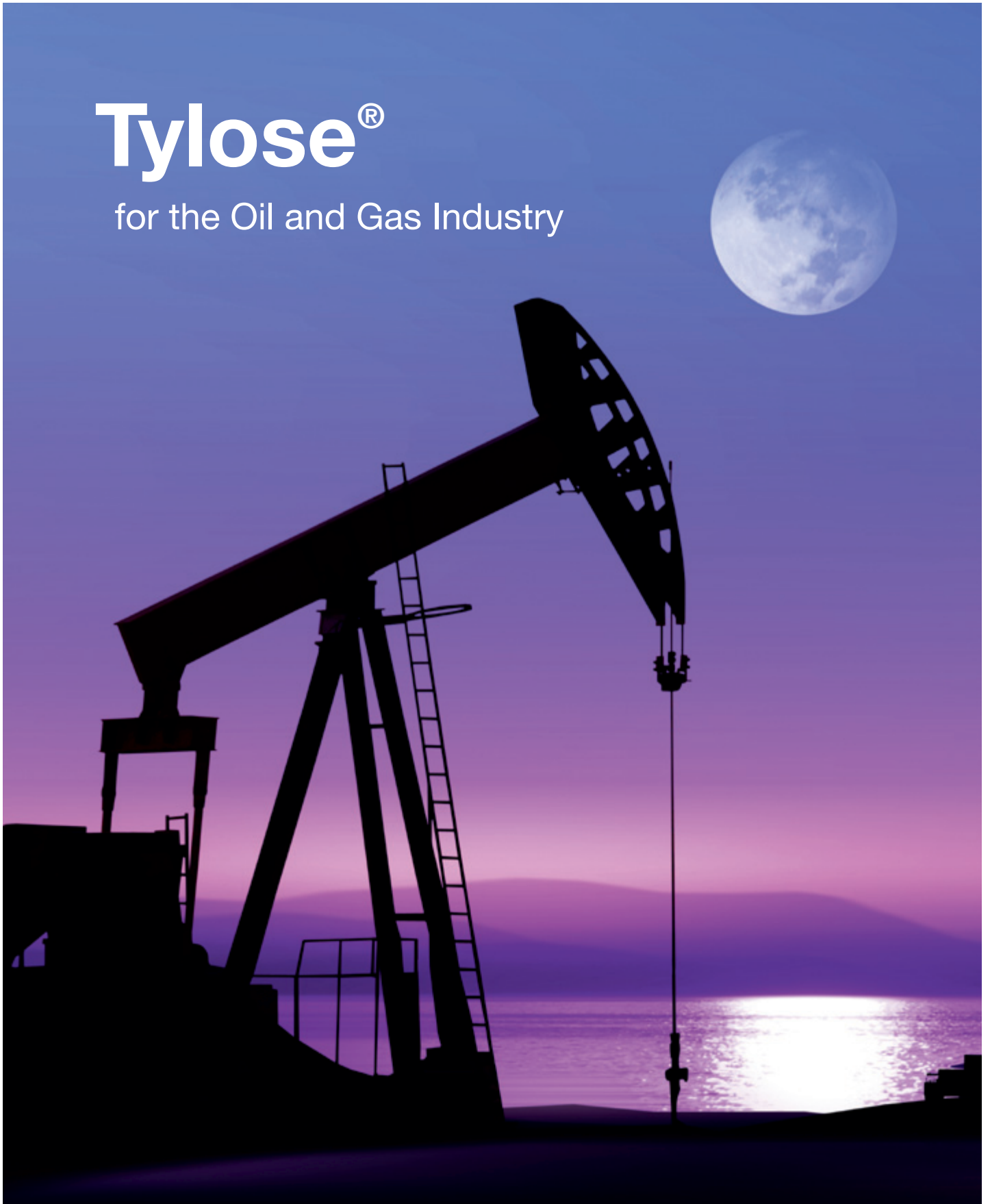


Tylose[®]

for the Oil and Gas Industry



Tylose® for the Oil and Gas Industry

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 Tylose Products

Product	Viscosity Range [mPas]*
Tylose HS 30000 YP2	1500 – 2500
Tylose HC 30000 NP2	1500 – 3000
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 Tylose Products

Product	Viscosity Range [mPas]**
Tylose H 20 P2	40 – 80 (2.85 %)
Tylose H 200 NP2	150 – 300 (1.9 %)
Tylose E 813002	150 – 450 (1.9 %)
Tylose H 300 P2	400 – 700 (1.9 %)
Tylose HC 50 NP2	40 – 90 (1.8 %)

**Brookfield RV, absolutely dry, 20 °C, 20 °GH water



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.



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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	
Construction	
Paint	
Oilfield	
Personal Care	
Home Care	
Emulsion Polymerisation	
Suspension Polymerisation	
Ceramics	
Pet Litter	
Organo Soluble Applications	
Others	

The information in this publication corresponds to the present state of our knowledge and is intended to describe our products and their possible applications. It is not intended to guarantee the suitability of particular product characteristics for a specific use. Any existing industrial rights are to be taken into consideration. Quality is guaranteed in accordance with our general conditions of sale.

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