

TG-GBP Gelling Agent For Stimulation Fluids

Version 16/07/2020

TECHNICAL DATA SHEET

Description	TouGas TG-GBP is an ultra clean, fast-hydrating natural guar gum for fracturing fluid applications. The high quality and high purity of this product means that lower polymer loadings can be achieved and fewer impurities are deposited down-hole, both resulting in cleaner, higher permeability wells.									
Functionality	<p>TG-GBP builds viscosity rapidly, see the following FANN 35 viscosities: 40 ppt gel, 2 % KCl water, 1 Minute hydration, R1B1, 511 s⁻¹</p> <table border="0" style="margin-left: 40px;"> <tr> <td>3 Minutes</td> <td>36±2 cP</td> </tr> <tr> <td>5 Minutes</td> <td>39±2 cP</td> </tr> <tr> <td>30 Minutes</td> <td>42±2 cP</td> </tr> <tr> <td>60 Minutes</td> <td>44±2 cP</td> </tr> </table> <p>TG-GBP can be crosslinked with borate crosslinkers.</p>		3 Minutes	36±2 cP	5 Minutes	39±2 cP	30 Minutes	42±2 cP	60 Minutes	44±2 cP
3 Minutes	36±2 cP									
5 Minutes	39±2 cP									
30 Minutes	42±2 cP									
60 Minutes	44±2 cP									
How to use	Due to its excellent hydration properties, TouGas TG-GBP enables for both batch mixing and on-the-fly addition. Typical loadings are in the range of 10 lb/Mgal to 50 lb/Mgal (5 kg/m ³ to 20 kg/m ³), depending on temperature and water quality. Lab testing to identify best loading is highly recommended.									
Properties	Appearance	Light beige colored powder								
	Particle Size (Tyler Mesh)	100 % through 100 mesh								
	Moisture	6 to 10 wt. %								
	Ash	<0.75 wt. %								
	Heavy Metals	<200 ppm total								
	pH (1.0 % solution)	6 to 7.5								
	Viscosity (1.0 % solution)	7000 – 8000 cP (Brookfield RVDV)								
Safety and Handling	For specific safety, handling and toxicity, please see current Material Safety Data Sheet									
Typical Shelf Life	12 months (closed bags, stored at ambient temperature)									
Packaging	Bag (25 kg / 55 lb)									
Contact	<p>info@tougas-oil.com TouGas Oilfield Solutions GmbH, Germany www.tougas-oil.com</p>									