

TG-GBPH Gelling Agent For Stimulation Fluids

Version 16/07/2020

TECHNICAL DATA SHEET

Description	TouGas TG-GBPH is a high quality, fast-hydrating hydroxypropyl guar 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 downhole, both resulting in cleaner, higher permeability wells.									
Functionality	<p>TG-GBPH builds viscosity rapidly, see the following FANN 35 results: 40 ppt gel, 2 % KCl water, 1 Minute hydration, R1B1, 511 s⁻¹</p> <table border="0"> <tr> <td>3 Minutes</td> <td>26±2 cP</td> </tr> <tr> <td>5 Minutes</td> <td>30±2 cP</td> </tr> <tr> <td>30 Minutes</td> <td>34±2 cP</td> </tr> <tr> <td>60 Minutes</td> <td>36±2 cP</td> </tr> </table> <p>TG-GBPH can be crosslinked with borate, zirconium or titanium crosslinkers.</p>		3 Minutes	26±2 cP	5 Minutes	30±2 cP	30 Minutes	34±2 cP	60 Minutes	36±2 cP
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How to use	Due to its excellent hydration properties, TG-GBPH 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	<p>Appearance</p> <p>Particle Size (Tyler Mesh)</p> <p>Moisture</p> <p>Ash</p> <p>Heavy Metals</p> <p>pH (1.0 % solution)</p> <p>Viscosity (1.0 % solution)</p>	<p>Light yellow colored powder</p> <p>100 % through 100 mesh</p> <p>6 to 10 wt. %</p> <p>1 – 3 wt. %</p> <p>< 200 ppm total</p> <p>9 to 11</p> <p>6000 – 7000 cP (Brookfield RVDV)</p>								
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</p> <p>TouGas Oilfield Solutions GmbH, Germany</p> <p>www.tougas-oil.com</p>									

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