

## TG-GBPC Gelling Agent For Stimulation Fluids

Version 15/07/2020

# TECHNICAL DATA SHEET

<b>Description</b>	TouGas TG-GBPC is a high quality, fast-hydrating carboxymethyl hydroxypropyl guar for fracturing fluid applications. It is very effective at high temperatures where other polymers require much higher polymer loadings. Highest quality raw materials guarantee best quality of TouGas GBPC consistently.									
<b>Functionality</b>	<p>TG-GBPC builds up viscosity rapidly, see the FANN 35 results: 40 ppt gel, 2 % KCl water, 1 Minute hydration, R1B1, 511 s<sup>-1</sup></p> <table border="0"> <tr> <td>3 Minutes</td> <td>30±2 cP</td> </tr> <tr> <td>5 Minutes</td> <td>33±2 cP</td> </tr> <tr> <td>30 Minutes</td> <td>36±2 cP</td> </tr> <tr> <td>60 Minutes</td> <td>38±2 cP</td> </tr> </table> <p>TG-GBPC can be crosslinked with borate, zirconium or titanium crosslinkers.</p>		3 Minutes	30±2 cP	5 Minutes	33±2 cP	30 Minutes	36±2 cP	60 Minutes	38±2 cP
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<b>How to use</b>	Due to its excellent hydration properties, TG-GBPC 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 <sup>3</sup> to 20 kg/m <sup>3</sup> ), depending on temperature and water quality. Lab testing to identify best loading is highly recommended.									
<b>Properties</b>	Appearance	Light yellow colored powder								
	Particle Size (Tyler Mesh)	100 % through 100 mesh								
	Moisture	6 to 10 wt. %								
	pH (1.0 % solution)	6 to 7.5								
	Viscosity (1.0 % solution)	3000 – 4500 cP (Brookfield RVDV)								
<b>Safety and Handling</b>	For specific safety, handling and toxicity, please see current Material Safety Data Sheet									
<b>Typical Shelf Life</b>	12 months (closed bags, stored at ambient temperature)									
<b>Packaging</b>	Bag (25 kg / 55 lb)									
<b>Contact</b>	<p>info@tougas-oil.com TouGas Oilfield Solutions GmbH, Germany www.tougas-oil.com</p>									