

May 2014

## ***Oil & Gas – Fast Hydrating Grade*** **ETS FHG™ Guar Gum Powder Specifications**

SPECIFICATION	ETS FHG™ 35/40	ETS FHG™ 40/45	ETS FHG™ Premium 45/50
<b>GRADE</b>	Fast Hydrating: 35-40 cPs / 200 Mesh	Fast Hydrating: 40-45 cPs / 200 Mesh	Fast Hydrating: 45-50 cPs / 200 Mesh
<b>APPEARANCE</b>	Fine Powder	Fine Powder	Fine Powder
<b>CHEMICAL ANALYSIS:</b>	Min - Max	Min - Max	Min - Max
Moisture (%)	0.00 - 7.00	0.00 - 5.00	0.00 - 5.00
Ash (%)	0.00 - 1.00	0.00 - 1.00	0.00 - 1.00
Protein (%)	0.00 - 5.00	0.00 - 5.00	0.00 - 5.00
R.I.A. (%)	0.00 - 5.00	0.00 - 5.00	0.00 - 5.00
pH	6.50 - 8.00	6.50 - 8.00	6.50 - 8.00
<b>GRANULOMETRY:</b>	Min	Min	Min
Thru 200 Mesh (%)	> 97.00	> 97.00	> 98.00
<b>FANN VISCOSITY:</b> <i>FANN 35 Viscometer 300 rpm</i>	10 gm KCL, 2.4 gm G.G.P. 500 ml water, 2 minutes at 2,000 rpm		
3 min (cPs)	34.00 - 36.00	39.00 - 41.00	44.00 - 46.00
60 min (cPs)	39.00 - 41.00	44.00 - 46.00	49.00 - 51.00
<b>PACKAGING:</b>	Jumbo HDPE Bags (2000 lbs); Palletized (double/single stacks), strapped & shrink wrapped, fumigated per USDA or per buyers request		

**Notice to Purchaser:** The information in this publication is based on tests that we believe are reliable. Your results may vary due to differences in test conditions. You must evaluate whether the product is suitable for your specific intended application. The information above is made with no express or implied warranties. ETS Inc.'s only obligation, and your only remedy, is the replacement of the product if it is shown to be defective when received. In no case will ETS Inc. be liable for any incidental, special, or consequential damages based on breach of warranty or contract, negligence, strict tort, or any other reason.