



Nanhai Chemical & Equipment (HK) Co.

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NH-HPG EX High Viscosity

IDENTIFICATION	
Chemical Name: Guar Gum Derivative	
C.T.F.A./I.N.C.I. Name : HYDROXYPROPYL GUAR GUM	
Product Grade: EX High Viscosity	
CAS Number: 39421-75-5	

SPECIFICATIONS	RESULTS
Odor	Pass
Moisture, %	6.0 – 10.0
pH(0.6%solution)	7.0 –9.0
Particle Size (100 Mesh)	99.0 Min
Viscosity 4 Hour, FANN 35(0.6%solution)	120Min
PO substitution(MS)	0.3

TYPICAL PROPERTIES	
Physical form	yellow fine powder
Bulk Density (g/cm ³)	0.7 approx.
Solubility in water @ 20 Deg C	Soluble
Insoluble in	Non-polar solvent

STANDARD APPLICATIONS
NH-HPG EX High Viscosity is a single chemically modified guar gum with excellent characteristics. Compared to unmodified guar gum powder, better chemical stability and lower insoluble residues after gel breaking. It is very easily applied in the fracturing operations with temperature resistance up to 90°C. In addition, it is an excellent non-ionic thickener with great compatibility to the base fluid, and has been widely used as a fracturing thickener in Asia and American market.

STANDARD PACKAGING
25 KG Bags, 55 LB Bags, and 1000 LB. Super sacks. Alternative package sizes be available upon request.

SHELF LIFE
2 years

NH-CMHPG SG

IDENTIFICATION
Chemical Name: Guar Gum Derivative C.T.F.A./I.N.C.I. Name : Guar gum, carboxymethyl 2-hydroxypropyl ether, sodium salt Product Grade: Super Grade CAS Number: 68130-15-4

SPECIFICATIONS	RESULTS
Odor	Pass
Moisture, %	6.0 – 10.0
pH(0.6%solution)	9.0 –11.0
Particle Size (100 Mesh)	99.0 Min
Viscosity 60min, FANN 35(0.48% in 2% KCl solution)	120Min

TYPICAL PROPERTIES	
Physical form	yellow fine powder
Bulk Density (g/cm ³)	0.7 approx.
Solubility in water @ 20 Deg C	Soluble
Insoluble in	Non-polar solvent

STANDARD APPLICATIONS
NH-CMHPG SG super grade is chemically modified guar gum with excellent characteristics. Compared to unmodified guar gum powder; it has better chemical stability and lower insoluble residues after gel breaking. It is very easily applied in the fracturing operations with temperature resistance up to 180°C. In addition, it is an excellent thickener with great compatibility to the base fluid, and has been widely used as a fracturing thickener in international market.

STANDARD PACKAGING
25 KG Bags, 55 LB Bags, and 1000 LB. Supersacks.

SHELF LIFE
2 years.