

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Guar Gum, Cationic
<b>INCI Name</b>	Guar Hydroxypropyltrimonium Chloride, Water, Sodium Chloride
<b>CAS</b>	65497-29-2, 7732-18-5, 7647-14-5
<b>Lot Number</b>	241118102
<b>Manufacture Date</b>	11/2024
<b>Re-test Date</b>	11/2026

Items	Specification	Results
<b>Appearance</b>	Light Yellowish Powder	Conforms
<b>Dry Loss (105°C, 2hrs)</b>	6.0 - 12.0 [%]	7.79
<b>pH (1% Sol, 25°C)</b>	6.0 - 7.0	6.71
<b>Total Nitrogen</b>	1.3 - 1.6 [%]	1.31
<b>Viscosity (1% Sol, 25°C)</b>	3000 - 4000 [cPs]	3,070
<b>Ash (700°C, 3hrs)</b>	2.0 Max. [%]	1.90

Viscosity: Brookfield RVT, Spindle No.4, 20rpm

### STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

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