

## Product Data Sheet

### Guar Gum - Industrial Grade, Fast Hydration (FH)

#### Description

|                     |                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Industrial Grade Fast Hydration (FH) Guar Gum is a fine-mesh, rapid-hydrating guar gum powder specifically processed for use as the primary viscosifying/gelling agent in hydraulic fracturing fluids. Its fast, high-viscosity hydration profile is the dominant driver of India's guar gum export volume, accounting for the large majority of guar gum shipped for oil and shale gas extraction. |
| <b>Applications</b> | Hydraulic fracturing (fracking) fluid viscosifier/gelling agent<br>Horizontal drilling fluid additive<br>Oilfield completion fluid formulation                                                                                                                                                                                                                                                      |
| <b>Grade</b>        | Industrial Grade, Fast Hydration (FH)                                                                                                                                                                                                                                                                                                                                                               |
| <b>CAS No.</b>      | 9000-30-0                                                                                                                                                                                                                                                                                                                                                                                           |

#### Key Benefits

1. Fast hydration profile delivering rapid viscosity development for time-sensitive well-treatment operations
2. High viscosity yield supporting efficient proppant transport in fracturing fluids
3. Biodegradable natural polymer offering a cost-effective alternative to synthetic polymers
4. Consistent, high-volume supply reflecting India's dominant position in global guar gum production

#### Chemical Analysis & Physical Data

#### Typical Specification

| Parameter                                 | Test Method             | Unit | Specification                                    |
|-------------------------------------------|-------------------------|------|--------------------------------------------------|
| Viscosity (1% Solution, 24hr, Brookfield) | Viscometer Method       | cps  | Min. 5,000 – 6,000                               |
| Hydration Rate                            | Standard Hydration Test | –    | Fast (majority of final viscosity within 1 hour) |
| Particle Size                             | Sieve Method            | mesh | 200                                              |
| Moisture                                  | Oven-Drying Method      | wt%  | Max. 12.0                                        |
| Protein Content                           | Kjeldahl Method         | wt%  | Max. 7.0                                         |
| Acid Insoluble Residue (AIR)              | Gravimetric Method      | wt%  | Max. 4.0                                         |
| Ash Content                               | Gravimetric Method      | wt%  | Max. 1.0                                         |
| pH (1% Solution)                          | pH Meter                | –    | 5.5 – 7.5                                        |
| Appearance                                | Visual                  | –    | Off-white to cream free-flowing powder           |

## Packaging

**Packaging**     25 kg Kraft Paper Bags (PE-lined)  
                          500 kg / 1,000 kg Jumbo Bags (FIBC)  
                          Custom packaging available on request.

## Storage & Handling

1. Store in a cool, dry, well-ventilated warehouse away from moisture
2. Keep bags sealed until point of use to prevent moisture pickup and microbial spoilage
3. Stack on pallets, away from direct ground contact
4. Use appropriate PPE (dust mask, goggles) when handling – avoid dust generation

## Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting viscosity, hydration rate and moisture against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

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*Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.*