

TECHNICAL DATA SHEET

## Calcium Lignosulfonate Dispersant Grade Powder

Fine Powder Lignosulfonate Dispersant for Pigments, Fillers, Carbon Black, Ceramics and Industrial Suspensions

<b>Product Code</b>	GAC-CaLS-Dispersant	<b>Product Type</b>	Calcium Lignosulfonate / Powder Dispersant / Stabilizer
<b>CAS No.</b>	8061-52-7	<b>Physical Form</b>	Fine brown water-soluble powder
<b>Version</b>	V2.1   May 2026	<b>Primary Markets</b>	Paints - Coatings - Ceramics - Concrete - Drilling Fluids

<b>Primary Role</b> Powder dispersant	<b>Performance Focus</b> Dispersion and suspension stability	<b>Best Fit</b> Pigments, fillers, carbon black	<b>Supply Support</b> TDS, SDS, COA and samples
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### 1. Product Overview

Calcium Lignosulfonate Dispersant Grade Powder is a fine brown powder dispersant formulated from calcium lignosulfonate for insoluble pigments, fillers, carbon black and aqueous suspension systems.

It is designed to facilitate dispersion, re-dispersion and long-term suspension stability in industrial formulations such as coatings, ceramics, concrete admixtures and drilling fluids.

### 2. Key Performance Functions

- High-Efficiency Dispersion: assists dispersion of insoluble pigments, fillers and carbon black.
- Re-Dispersion Support: facilitates easier re-dispersion during storage or use.
- Suspension Stability: improves long-term stability and reduces settling.
- Electrostatic Stabilization: strong anionic groups support particle repulsion in water-based systems.
- Process Flexibility: can be added while agitating into water or dispersion media.

### 3. Main Specifications

Parameter	Specification
<b>Form</b>	Fine brown powder
<b>Lignosulfonate Content</b>	>= 55%
<b>Moisture</b>	5% - 10%
<b>Solids</b>	90% - 95%
<b>pH (5% solution)</b>	7 - 10
<b>Effective Dosage</b>	0.1% - 1.0% of material weight
<b>Storage</b>	Cool, dry location in original packaging
<b>Shelf Life</b>	Minimum 12 months from manufacture

Note: The above values are typical technical data for reference. Final agreed specification and COA shall prevail.

### 4. Recommended Application Areas

Application Area	Typical Use	Customer Value
<b>Paints &amp; Coatings</b>	Dispersant for pigments, fillers and aqueous coating systems.	Improves color development, stability and processing consistency.
<b>Carbon Black Dispersion</b>	Dispersant for carbon black and fine insoluble particles.	Reduces agglomeration and improves distribution.
<b>Ceramics Processing</b>	Dispersing aid for clay, mineral and ceramic slurries.	Supports uniform slurry behavior and processing stability.
<b>Concrete Admixtures</b>	Auxiliary dispersing component in cementitious systems.	Supports particle dispersion and workability after testing.
<b>Drilling Fluids</b>	Dispersant/stabilizer for selected mud and fluid systems.	Improves suspension behavior and solids management.

## 5. Suggested Usage Guidance

Application	Typical Starting Dosage / Use	Technical Note
Industrial dispersions	0.1% - 1.0% of material weight	Add powder while agitating into water or dispersion medium.
Pigment/filler systems	Bench test required	Optimize by particle size, solids loading and viscosity target.
Ceramic slurries	Trial dosage recommended	Adjust by slurry density, pH and deflocculation requirement.
Storage stability	Stability testing required	Verify settling, re-dispersion and viscosity after aging.

Dosage and application method should be verified by laboratory or pilot testing. Performance depends on formulation type, raw materials, process conditions, temperature, moisture, mixing time and target technical results.

## 6. Packaging, Storage & Handling

<b>Packaging</b> <ul style="list-style-type: none"> <li>25 kg woven bags / kraft bags with inner PE liner.</li> <li>500 kg, 600 kg or 1,000 kg jumbo bags available on request.</li> <li>Palletized, neutral or customized packing can be discussed.</li> </ul>	<b>Storage &amp; Handling</b> <ul style="list-style-type: none"> <li>Store in a cool, dry and ventilated warehouse.</li> <li>Keep away from moisture, rain, direct sunlight and strong oxidizing materials.</li> <li>Recommended shelf life: 12 months under original sealed packaging.</li> </ul>
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Please refer to the corresponding Safety Data Sheet before use. Product suitability for regulated applications must be confirmed separately according to local laws and customer requirements.

## 7. Documents & Technical Support

- TDS, SDS/MSDS, COA and agreed specification support.
- Sample arrangement and product grade recommendation.
- Packing photos, loading information and export document support.
- Application discussion and grade selection support for industrial buyers.

## 8. Inquiry Information

### For quotation, sample request or technical document support

Please provide application, required quantity, destination port, packaging preference and target technical requirement.

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## Disclaimer

The information in this Technical Data Sheet is provided for reference and general guidance only. It does not constitute a legally binding specification or warranty. Customers should conduct their own tests to determine product suitability for their intended application. Final commercial specification shall be subject to agreed contract, product grade and COA.