

TECHNICAL DATA SHEET (TDS)

Premium Grey Barite Powder | Friction & Automotive Brake Pad Grades

1. PRODUCT OVERVIEW & APPLICATION

Our commercial-grade Grey Barite (Natural Barium Sulphate) is micro-milled and carefully graded specifically for the friction materials industry. Serving as a high-density, inert structural filler, it provides exceptional thermal stability, consistent compressibility, and low oil absorption. These properties directly ensure quiet braking performance, reduced rotor wear, and optimal fade resistance under high-temperature operating conditions.

2. GRADE-SPECIFIC TECHNICAL SPECIFICATIONS

Parameter / Property	Grade: SG 3.95	Grade: SG 4.0+	Grade: SG 4.2+	Grade: SG 4.3+
Specific Gravity (g/cm³)	3.95 ± 0.03	4.02 ± 0.03	4.22 ± 0.03	4.32 ± 0.03
BaSO4 Content (%)	≥ 78.0%	≥ 83.0%	≥ 90.0%	≥ 93%
Fe2O3 Content (%)	≤ 1.5%	≤ 1.0%	≤ 0.3%	≤ 0.20%
Moisture Content (%)	≤ 0.20%	≤ 0.15%	≤ 0.10%	≤ 0.10%
Standard Mesh Sizes	200 / 325 mesh	325 / 400 mesh	325 / 500 mesh	325 / 500 / Micronised

3. APPLICATIONS & MARKET SEGMENT FIT

- SG 3.95 & 4.0+ Grades:** Ideal for light-duty aftermarket passenger car brake pads, standard drum brake shoes, and economy-tier organic/semi-metallic friction materials where competitive volumetric cost-efficiency is paramount.
- SG 4.2+ & 4.3+ Grades:** Engineered for heavy-duty commercial vehicle (CV) brake linings, railway disc brake pads, heavy industrial machinery clutches, and premium low-metallic or non-asbestos organic (NAO) formulations requiring maximum thermal stability and low rotor abrasion.

4. KEY FUNCTIONAL FEATURES

- High Thermal Stability:** Chemically inert with a high melting point (>1580°C) to withstand friction heat.
- Optimal NVH Reduction:** Aids in minimizing Noise, Vibration, and Harshness (NVH) profiles in automotive assemblies.
- Low Abrasiveness:** Low Mohs hardness (3.0 - 3.5) guarantees minimal wear on mating brake rotors and drums.
- Strict Particle Size Control:** Controlled particle size distribution ensures seamless compounding in high-speed mixers.

5. STANDARD PACKAGING & SAMPLE AVAILABILITY

- **Packaging Options:** 25 Kg HDPE bags, 50 Kg bags, or 1.0 to 1.5 Metric Ton (MT) jumbo bags with inner liner protection.
- **Pre-Qualified Samples:** Complimentary 1.0 Kg to 5.0 Kg lab-testing sample kits are available upon request for R&D evaluation.

For Laboratory Samples, Quotes, Contact:

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