

Ultrafine barium sulfate

Technical data sheet

SZ0802-2021-17 V2

GreenThinking® FB

Introduction: GreenThinking® FB series ultrafine barium sulfate is processed from carefully selected high-whiteness raw materials, with an extremely low content of free quartz, posing no harm to human health. Rigorous internal quality control ensures that the products have consistent chemical purity and stable particle size distribution.

Application: It is widely used in rubber, plastics, powder coatings, protective paints, and primers. Its chemical inertness, especially in the case of ultrafine barium sulfate, makes it suitable for industrial or salt spray environments.

Advantages:

- High whiteness
- Chemical inertness
- Low solubility
- Improved weather resistance and chemical stability of polymers.

Particle size analysis and properties (typical product values are within the demonstration range, not as product standards) :

| Project | Test method | FB05 | FB10 | FB20 | FB35 | FB45 | FB60 |
|-------------------------------|------------------------------|-------|-------|-------|-------|-------|-------|
| Sieve Residue Percentage(%) | ASTM 325 目(45um) | Trace | Trace | Trace | 0.05 | 0.35 | 3.00 |
| Particle Size (D97) μm | Laser Particle Size Analyzer | 3.5 | 8.0 | 12.0 | 22.0 | 25.0 | 60.0 |
| Median Particle Size (D50) μm | Laser Particle Size Analyzer | 1.3 | 2.3 | 3.0 | 5.5 | 7.7 | 13.5 |
| Brightness | Konica Minolta CR-14 | ≥94 | 91~93 | 91~93 | 91~93 | 91~93 | 91~93 |
| Oil Absorption (g/100g) | ISO 787-5:1980 | 15 | 14 | 13 | 11 | 10 | 9 |
| pH Value (10% slurry) | ISO 787-9:1981 | 6~9 | 6~9 | 6~9 | 6~9 | 6~9 | 6~9 |
| Specific Gravity (g/cm3) | SN/T 0480.1~0480.13-95 | 4.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| Specific Gravity (Wt,%) | (Max) ASTM C-566 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Mohs Hardness | - | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| Refractive Index | - | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 |

Chemical composition analysis (average values within the specified range, not used as product standards).

| Content% | FB05 | FB10 | FB20 | FB35 | FB45 | FB60 |
|--------------------------------|------|------|------|------|------|------|
| BaSO ₄ | ≥95 | ≥93 | ≥93 | ≥93 | ≥93 | ≥93 |
| Al ₂ O ₃ | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 |
| SiO ₂ | ≤3 | ≤4 | ≤4 | ≤4 | ≤4 | ≤4 |
| CaO | 0.1 | 0.1 | 0.1 | 0.26 | 0.26 | 0.26 |
| Fe ₂ O ₃ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |

Note: The above are temporary technical parameters. Our company will make further adjustments based on customer feedback to achieve the desired results.

Packaging: 25 kg per bag, 1200 kg per Pallet.

Storage: Store in a cool, dry, and well-ventilated place with proper sealing.

For More Product Information, Please Visit Our Website: www.sanezen.com

Contact:

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