



Technical Data Sheet (TDS)

Barite Powder – Grade 4.10 & Grade 4.20

Manufacturer / Supplier: BASEKIM

Product Name: Barite Powder

Chemical Name: Barium Sulfate Mineral Powder

Origin: Turkey

Appearance: Fine White to Greyish White Powder

Product Type: Industrial & Drilling Grade Mineral

Product Description

BASEKIM supplies premium quality Barite Powder in different density grades suitable for oil drilling, industrial fillers, coatings, plastics, rubber compounds, and radiation shielding applications.

Our Barite products are processed under strict quality control procedures to ensure stable specific gravity, controlled chemical composition, low moisture content, and excellent performance in industrial applications.

Available grades:

- **Barite 4.10**
- **Barite 4.20**

Both grades are suitable for export markets and bulk industrial consumption.

Main Features

- High Specific Gravity
- Excellent Chemical Stability
- Low Moisture Content
- Consistent Particle Distribution
- High Purity Mineral Structure
- Suitable for Oilfield Applications
- Excellent Suspension Performance
- Industrial Export Quality

Physical Properties

Property	Barite 4.10	Barite 4.20
Appearance	Fine Powder	Fine Powder
Color	White / Greyish White	White / Bright White
Specific Gravity	4.10 Min	4.20 Min
Moisture Content	≤ 0.2 %	≤ 0.2 %
pH Value	6.5 – 8.5	6.5 – 8.5
Water Solubility	Insoluble	Insoluble
Oil Absorption	Low	Low
Hardness (Mohs)	3 – 3.5	3 – 3.5
Bulk Density	2.2 – 2.5 g/cm ³	2.4 – 2.7 g/cm ³
Particle Shape	Micronized	Micronized



Chemical Analysis

Barite Grade 4.10

Item	Test Method	Measured Value
SiO ₂	XRF Analysis	19.72 %
SO ₂	XRF Analysis	23.17 %
CaO	XRF Analysis	0.23 %
Fe ₂ O ₃	XRF Analysis	10.74 %
SrO	XRF Analysis	0.88 %
BaO	XRF Analysis	41.09 %
PbO	XRF Analysis	2.67 %
Loss on Ignition (L.O.I.)	ASTM D7348	1.50 %

Barite Grade 4.20

Item	Test Method	Measured Value
SiO ₂	XRF Analysis	5.61 %
SO ₂	XRF Analysis	29.72 %
F	XRF Analysis	3.93 %
Fe ₂ O ₃	XRF Analysis	0.43 %
Ca	XRF Analysis	4.23 %
SrO	XRF Analysis	2.15 %
BaO	XRF Analysis	53.31 %
PbO	XRF Analysis	0.62 %
Loss on Ignition (L.O.I.)	ASTM D7348	0.00 %

Industrial Applications

Oil & Gas Industry

- Drilling mud weighting agent
- Pressure balancing material
- Borehole stabilization
- Deep well drilling systems

Paint & Coating Industry

- Functional filler material
- Gloss enhancement
- Corrosion resistance improvement
- Chemical resistance improvement

Rubber & Plastic Industry



- Density enhancer
- Noise reduction applications
- Dimensional stability support
- Industrial compound filler

Construction Industry

- Heavy concrete production
- Radiation shielding walls
- Sound insulation systems

Friction Industry

- Brake pad manufacturing
- Clutch material production
- Friction compounds

Packaging Information

Packaging Type	Net Weight
Jumbo Bag	1.5 MT

Container Loading Capacity

Container Type	Loading Capacity
20 FT Container	24 MT
Loading Style	1.5 MT Jumbo Bags

Storage Conditions

- Store in dry and covered areas
- Protect from humidity and water exposure
- Avoid direct contact with moisture
- Keep bags tightly closed after opening

Shelf Life

Under proper storage conditions, the product maintains stable quality for an unlimited period.