MIX MINERALS

SERVING TX, NM, LA, OK & NORTHERN MEXICO

TECHNICAL DATA SHEET

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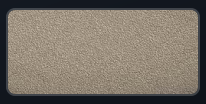
$BaSO_4$

Barite 3.9



PRODUCT DESCRIPTION

Barite is the weighting agent that lets a drilling crew hold precise hydrostatic pressure against formation pressure, and its whole value is consistency — a load that comes in under spec forces mud engineers to over-treat, and one that varies batch to batch makes weight-up unpredictable. API 13A recognises two drilling grades: the traditional 4.2 g/mL and the 4.1 g/mL alternate specification, which API issued in 2010 as high-grade 4.2 reserves tightened worldwide. We supply both, plus a 3.9 industrial grade for uses outside the API scope.

TYPICAL SPECIFICATIONS

PROPERTY	VALUE	BASIS
Standard	API 13A / ISO 13500 (grades 4.2 and 4.1)	Per standard
Grades supplied	SG 4.20 · SG 4.10 · SG 3.90	Typical
Density, API grades	4.20 or 4.10 g/mL minimum by grade	Per standard
Water-soluble alkaline earth metals as Ca	250 mg/kg maximum (API grades)	Per standard
Residue greater than 75 µm	3.0% by mass maximum (API grades)	Per standard
Particles less than 6 µm	30% by mass maximum (API grades)	Per standard

GRADE SUPPLIED

GRADE	SPECIFIC GRAVITY	STANDARD	WHAT IT'S FOR
Barite 4.2	**4.20 g/mL min**	API 13A / ISO 13500 — Barite 4.2 g/mL	The traditional drilling grade. Highest density per unit volume, so you reach target mud weight with the least solids loading.
Barite 4.1	**4.10 g/mL min**	API 13A / ISO 13500 — Barite 4.1 g/mL	A full API grade, not a downgrade. Issued by API in 2010 as worldwide 4.2 reserves tightened. Same purity and particle-size requirements as 4.2.
Barite 3.9 ◀	**3.90 g/mL typical**	Below API drilling specification	For applications that do not require API certification. Confirm suitability against your program before ordering.

PRINCIPAL INDUSTRIAL APPLICATIONS

Drilling Fluid Weighting
The primary weighting agent for water- and oil-based muds. Grade 4.2 reaches target mud weight with the least solids loading; grade 4.1 is the API-recognised alternate where 4.2 supply is tight or cost matters.

Well Control
Supports kill-weight fluid preparation, where predictable specific gravity directly determines how quickly a well can be brought back under control.

Industrial Applications
The 3.9 grade serves uses outside the API scope — high-density filler and aggregate applications where certification is not required.

PACKAGING & AVAILABILITY

- Pneumatic bulk tanker
- 100 lb bags

HANDLING & STORAGE

Chemically inert and non-hazardous in normal use. Manage as a nuisance dust during transfer; standard respirable-dust precautions apply. Store grades separately and label clearly — the three are visually indistinguishable.

A Safety Data Sheet (SDS) is available for this product on request and should be reviewed before handling.

ORDERING & TECHNICAL SUPPORT

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