



# MUDSTAR

## API Barite 4.2

MUDSTAR API Barite 4.2 is a high quality barium sulphate ( $BaSO_4$ ) ore that can be used as a weighting agent to increase mud density in all types of drilling fluid systems be it oil or water based.

Increasing fluid density up to 2.52 S.G (21 pounds per gallon), MUDSTAR API Barite 4.2 is a critical component for the stabilization of a mud system to control formation pressures and stabilize the borehole.

Processed under stringent QA/QC procedures and controls to ensure consistency & reliability, MUDSTAR API Barite 4.2 is locally micronized and packaged to meet strict API 13A specifications.

### Features & Benefits:

- Chemically inert
- Does not react with other additives
- Limited particle breakdown
- Effective in Well Kill operations
- Economical weighting agent
- Regional High Quality Resources



**UNIMIN**  
ENERGY SOLUTIONS  
A SIBELCO GLOBAL DIVISION



## Classic Properties & API Specs

- Physical State - Solid, Powder Form
- Appearance - Tan to Gray Color
- Odor - Odorless
- Specific Gravity -  $\geq 4.2$
- Stability Data - Stable

API 13A Requirements	Units	Requirements
Density	SG	4.2
Water Soluble Alkaline Earth Metals as Calcium	mg/kg	250 max
Residue greater than 75 micrometers	% w/w	3.0 max
Particles less than 6 micrometers	% w/w	30 max
Particles less than 4 micrometers	% w/w	20.0 max
Extractable Carbonates	mg/kg	3000 max
BaSO <sub>4</sub>	% w/w	>90

## Standard Mixing Procedure

Add Barite through high shear mixer or jet hopper so that entire circulating volume is at uniform weight.

The amount of Barite required to increase the fluid density can be calculated using the following formulas:

$$\text{Barite kg / m}^3 = \frac{4200 (w2 - w1)}{4.2 - w2}$$

w1 = Initial mud weight in specific gravity

w2 = Desired mud weight in specific gravity

$$\text{Barite, kg / m}^3 = \frac{1470 (w2 - w1)}{35 - w1}$$

w1 = Initial mud weight in lb/gal

w2 = Desired mud weight in lb/gal

To learn more about this product or any other products, please contact:

**Danny Omland**

Mobile : +66 92257 4533

Email : [DannyLee.Omland@sibelcoasia.com](mailto:DannyLee.Omland@sibelcoasia.com)

**Vicky Ardian Muchtar**

Mobile: +62 8121216825

Email : [vicky.muchtar@sibelcoasia.com](mailto:vicky.muchtar@sibelcoasia.com)



**UNIMIN**  
ENERGY SOLUTIONS  
A SIBELCO GLOBAL DIVISION