



Drilling Fluids, Inc.

DESCRIPTION

USES

BENEFITS

TREATMENT

FUNCTION

BARITE

BARITE is finely ground high purity barium sulfate mineral. It is manufactured under license from the American Petroleum Institute and bears the API monogram.

BARITE has a specific gravity of 4.1 to 4.2. It is used for increasing the density of fresh water, salt water, and oil based muds.

BARITE is inexpensive and non-reacting with a moderately high specific gravity. Higher density weight materials are either much more expensive and abrasive (HEMATITE), or hazardous (Galena). **BARITE** is relatively inert with very limited acid solubility and biodegradability therefore it should not be used where formation damage from particle plugging is a major concern as it is very difficult to remove.

BARITE is added through the mud hopper or in bulk with a "wet receiver". Water (or oil) should be added in small amounts when large additions of **BARITE** are made to allow wetting of the solids. Oil based muds may require the addition of an additional wetting agent when the density is being increased by several pounds per gallon. Good agitation is required to mix **BARITE**. Sufficient gel strengths should be maintained to prevent settling during periods of quiescence.

The amount of **BARITE** needed to increase mud density is calculated as follows:

100 pound bags of Barite per 100 bbls of mud = $\frac{1435 (W2 - W1)}{34.2 - W2}$

Where: W1 = initial density (ppg)

W2 = desired density (ppg)

$\frac{1470 (W2 - W1)}{35 - W2}$

[for 4.2 sp.gr]

BARITE is much more efficient and preferred for raising the density of drilling fluids than lower specific gravity solids. Using **BARITE** can reduce the percentage of solids required by nearly 50%. Barite is inert and can be utilized in any fluid type.

GEO Drilling Fluids, Inc.

1431 Union Avenue
Bakersfield, CA 93305

1-800-GETSGEO

(661)325-5919

geodf@geodf.com

For more info visit:

geodf.com





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TYPICAL PHYSICAL PROPERTIES

Physical AppearanceGray to pink powder
Specific Gravity4.1—4.2
Bulk Density120 pcf-126pcf
Hygroscopic:no
pH in Water:neutral
Solubility in water:insoluble

SAFE HANDLING RECOMMENDATIONS

Utilize normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, goggles, and apron is recommended for employee comfort and protection. See Material Safety Data Sheet (MSDS) for this product prior to use.

PACKAGING

BARITE is packaged in 100 lb multi-wall bags.

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