

ATTAPULGITE

NATURAL OCCURING CLAY MINERAL

DESCRIPTION

ATTAPULGITE is a naturally occurring clay mineral used as a drilling fluid. ATTAPULGITE complies with API 13A section 12.

RECOMMENDED USE

ATTAPULGITE is designed for use in drilling fluids whenever ionic contamination from materials such as salts, gypsum, seawater, and cement is encountered or anticipated.

CHARACTERISTICS

- Superior high yield qualities
- Rapid rate of yield
- May be used with fresh, brackish, or salt make-up water
- Relatively low concentration develops high viscosities

MIXING AND APPLICATION

Recommended application rate for ATTAPULGITE as a drilling fluid is listed in the chart below. Higher concentrations of ionic contamination may require more ATTAPULGITE.

PACKAGING

~50 lb (22.7 kg) bags, 48 per pallet. All pallets are plastic-wrapped.

TYPICAL CHEMICAL ANALYSIS			
SiO ₂	66.21%	MgO	9.70%
Al ₂ O ₃	11.71%	K ₂ O	1.07%
Fe ₂ O ₃	4.02%	CO ₂	2.57%
TiO ₂	0.55%	SO ₄	0.25%
P ₂ O ₅	0.99%	Other	0.01%
CaO	2.92%		

(Although the elements are reported as oxides, they are actually present as complex aluminosilicates.)

DRILLING FLUID ATTAPULGITE Mixing Ratio in lbs (kg) per 100 gallons (380 liters) of water		
Condition	Lbs (kg) of ATTAPULGITE	% Solids
Normal Conditions	50 lbs (22.7 kg)	5.65%

TYPICAL PROPERTIES	
Free Moisture % (API Spec)	12.5
API Yields, bbl/ton (Individual Samples)	128
Screen Residue % >200 mesh	2.0
Screen Analysis, Alpine Jet Sieve % <325 mesh	77
Specific Gravity	2.40 g/ml

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