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PRODUCT BULLETIN

GEL

DESCRIPTION

GEL is a clay mineral of the montmorillonite family which has low grit and is specially ground for the drilling industry. The particularly desirable quality of this clay is its high yield point which allows higher carrying capacity at lower annular velocities.

TYPICAL RHEOLOGICAL PROPERTIES¹ (Fresh Water):

Yield, (bbls/ton)	110
Viscosity, (cps) ²	40
Plastic Viscosity, (cps)	4
Yield Point, (lbs./100 ft) ²	32
Water Loss, (cc)	20

- 1 For test procedure in API 13A and 13B..
- 2 Fann Viscometer dial reading at 600 RPM.

TYPICAL CHEMICAL PROPERTIES

%

Silicon (SiO ₂)	47.2
Aluminum (Al ₂ O ₃)	14.1
Iron (Fe ₂ O ₃)	2.0
Magnesium (MgO)	12.4
Calcium (CaO)	4.2
Sodium (Na ₂ O)	2.0
Potassium (K ₂ O)	0.9
L.O.I. (1000°C)	17.2

Metals listed are complexed in the mineral structure and do not exist as free oxides.

TYPICAL PHYSICAL PROPERTIES

Moisture	10%
*Residue (+200 Mesh Wet Screen)	4%

*Normally composed of clay agglomerates and/or limestone.

The above properties are typical and not intended to be product specifications.

PACKAGING

Available in 50 lb. (3-ply natural bags), shipped on 42x42 non-returnable pallets. Also available in bulk bags and bulk.