

## INFORMATION

# MESUCO-KL

POTASSIUM LIGNITE

### DESCRIPTION

MESUCO-KL is a specially selected leonardite material which has been carefully reacted with potassium compounds. This reaction neutralizes the humic acids which are abundant in the raw material, converting them to water-soluble potassium humates. The finished product is readily soluble in low-pH muds, and is essentially sodium-free. Its typical properties are:

<b>Form</b>	<b>Free-flowing powder Brown to black</b>
<b>pH, 1% Solution</b>	<b>8.5-9.8</b>
<b>Moisture Content</b>	<b>8-12%</b>
<b>Thermal Stability</b>	<b>Stable to 200 *C</b>
<b>Particle Size</b>	<b>90% minus 30 mesh</b>
<b>Potassium Content</b>	<b>11% minimum</b>

### APPLICATION

MESUCO-KL is a versatile product which functions as a deflocculant and filtration control agent in fresh, brackish, sea and salt water muds.

MESUCO-KL is especially useful in inhibitive muds which utilize potassium or other compounds to inhibit clay activity in the drilling fluid and in the formations penetrated.

### ADVANTAGES

- Readily soluble in low-ph muds.
- Does not add sodium or free hydroxyl (OH-) to the mud system to aggravate clay cleavage and swelling.
- Deflocculates clay solids without strong dispersing action.
- Reduces filtration, both API and HPHT.
- Versatile. Functions in most water-base mud systems.
- Acts as contributory source of potassium (K+) in inhibitive muds.
- Stable at high temperatures.
- Serves as an emulsifier for oil.

#### **RECOMMENDED TREATMENT**

1 to 6 (2.9 to 17.1 kg/m<sup>3</sup>) in fresh and brackish systems for deflocculation and filtration control. 3 to 10 ppb (8.6 to 28.5 kg/m<sup>3</sup>) in higher-salinity systems. Higher dosages may be used in high-temperature applications.

#### **PACKAGING**

MESUCO-KL is packaged in 50 lb multi-layer heavy duty sacks.

MESUCO-KL is a Messina trademark