

TECHNICAL DATA

HUMALITE																																													
Typical Applications:		Drilling																																											
DESCRIPTION		<p>BLACK EARTH is the name that represents a number of Black Earth Humic LP products made from Humalite. It is a naturally occurring raw material found adjacent to the sub-bituminous coal fields of Alberta, Canada. Humalite is a soft, brown coal-like material, which has many similarities to leonardite but is very rich in humified organic matter and low in ash, and other impurities. This ore contains some of the highest quality humic material that is found in the world today.</p>																																											
CHARACTERISTICS		<p>BLACK EARTH Humalite is a naturally oxidized coal-like material similar to leonardite (lignite) but has a much higher humified organic matter content and significantly lower residuals.</p>																																											
PHYSICAL ANALYSIS		<table> <thead> <tr> <th></th> <th>Typical</th> </tr> </thead> <tbody> <tr> <td>Humic Acid</td> <td>>80%</td> </tr> <tr> <td>Ash</td> <td>< 20%</td> </tr> <tr> <td>Moisture</td> <td>28 – 31 %</td> </tr> <tr> <td>pH</td> <td>3.5 – 4.1</td> </tr> <tr> <td>Appearance</td> <td>Brownish – Black powder</td> </tr> <tr> <td>Bulk Density</td> <td>49.0 lbs./ft³ (790 kg/m³)</td> </tr> <tr> <td>Solubility Soluble</td> <td>(pH dependant)</td> </tr> </tbody> </table>					Typical	Humic Acid	>80%	Ash	< 20%	Moisture	28 – 31 %	pH	3.5 – 4.1	Appearance	Brownish – Black powder	Bulk Density	49.0 lbs./ft ³ (790 kg/m ³)	Solubility Soluble	(pH dependant)																								
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The information and data contained herein are believed to be accurate and reliable. Black Earth Humic LP makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information.

HUMALITE	
Typical Applications:	Drilling
APPLICATION:	<p>BLACK EARTH Humalite is used in water-based muds as a thinner (dispersant), and a secondary filtration control agent. Humalite is a much more stable thinner and filtration control additive at high temperatures than are the lignosulfonates. Concentrations vary from 3.0 - 30.0 kg/m³ depending upon the solids content of the system. BLACK EARTH Humalite requires the presence of hydroxyl ions (OH) for maximum effectiveness.</p> <p>Mix directly through the mud hopper. Caustic Soda additions will be required to maintain the pH at 9.5 or higher. It is advisable to use a dust mask and eye protection while mixing all powdered products.</p>
PACKAGED IN	<p>50 lb. Bags (up to 50 bags per pallet) 2000 lb. Totes</p>

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