Supplier: Pigott Shaft Drilling Limited
P.O. Box 63
Preston PR4 0BT
ENGLAND
Tel: + 44 (0) 1772 690076
Fax: + 44 (0) 1772 690840

Product name: **FLR POLYMER**

Product description: FLR POLYMER is a synthetic, acrylic based, free flowing, powdered polymer which dissolves quickly and easily in water without producing lumps or "fish eyes". The bulk density of the powder is approximately 0.8 tonnes/m^3 and the pH of a 1% solution is 5.4. The product has low hygroscopicity and it has no microbial susceptibility.

Principal uses:

- FLR POLYMER is used primarily as a Fluid Loss Reducer in bentonite based drilling muds. It is particularly effective in plain fresh water muds, polymer-extended bentonite muds and in weighted muds where substantial reductions in fluid loss may be achieved with small additions of this polymer, typically less than 1.5kg/m^3 of mud.
- A second use is in stabilising drilling muds at elevated temperatures up to 120^{o}C where FLR POLYMER controls the progressive gels and maintains a reduced fluid loss for long periods of time.
- The product can be used as a mud lubricant as FLR POLYMER imparts increased lubricity to bentonite based muds, even at concentrations as low as 0.5kg/m^3 of mud. The use of FLR POLYMER in a bentonite mud provides a combination of good fluid loss control and enhanced mud lubricity which can help to prevent pipe sticking in slim hole drilling, better core recoveries and easier casing extraction. A mud made from 1 to 3kg of FLR POLYMER m^3 and bentonite makes an excellent lubricant for pipe jacking or caisson sinking.

Characteristics: FLR POLYMER is suitable for addition to fresh-water muds with soluble calcium levels of less than 400ppm. As calcium levels increase, it will be necessary to increase the concentration of polymer in order to maintain fluid loss performance. FLR POLYMER may be used in brackish or salt-water muds provided the calcium and other divalent metal ions are controlled at low levels.

Mixing: FLR POLYMER powder is free flowing and easily dissolved in water. It may be added to the mud through a venturi jet hopper or directly into a mixing tank that is being agitated. The powder should be added to the mud slowly so that each particle becomes individually wetted and can therefore easily dissolve in the water. The product is of low toxicity and no special handling precautions are necessary. If FLR POLYMER is accidentally spilled then care should be taken to ensure that it is totally rinsed away with fresh water, otherwise it will form a very slippy surface which could result in falls and injury to personnel.

Packaging, Storage & Handling: FLR POLYMER is packaged in 25kg sacks or drums. It should be stored in a cool, dry place out of direct sunlight. It is of paramount importance that FLR POLYMER should be protected from the rain and high moisture conditions. The product does not generally present a health hazard. FLR POLYMER forms a very slippery gel when mixed with water. It is recommended that gloves, goggles and protective clothing be worn when handling the product. Spillages should be swept up and removed for disposal. Detailed information on handling precautions can be found in the relevant Safety Data Sheet.

Customs tariff code: 390690.90

Properties:

Appearance:	bead
Colour:	white
Bulk density:	865 kg/m^3