

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

Product name: **POLYTHIN**

**Product description:** POLYTHIN is a highly active solution of synthetic polymer thinner, which is soluble in fresh water and salt muds. The product is a brown liquid with a density of approximately 1.3kg/l and a pH of 7.0 to 7.5. It contains no heavy metals and is environmentally safe.

**Principal uses:** POLYTHIN is used as a thinner for bentonite and polymer muds. It replaces Ferrochrome Lignosulphates, Chrome Free Lignosulphates and Lignites with a dosage of approximately one quarter of that for the lignites, typically 0.7kg/m<sup>3</sup>. It causes no foaming and is suitable for use with fresh water muds of low and high pH, salt water gel, sea water gel, and gyp muds.

**Characteristics:** POLYTHIN is tolerant of most contaminants and is suitable for fresh water muds, gyp muds, salt water muds and sea water muds. It works well in the presence of Calcium and Magnesium ions and is unaffected by storage for long periods in its sealed drums, even at below freezing.

**Mixing:** POLYTHIN is very easy to mix and can be added directly to the mud. It should be added at a point of turbulence to ensure even distribution. The dosage of POLYTHIN will depend upon individual circumstances.

**Packaging, Storage & Handling:** POLYTHIN is normally packaged in 25kg plastic drums with threaded re-sealable caps, but other packaging is available to order. It has a long shelf life if stored in a cool dry place, avoiding extreme temperatures. It is recommended that gloves, goggles and protective clothing be worn. Spillages should be contained with an inert material and removed for disposal. The product is very slippery when wet. Further information on handling and use can be found in the relevant Safety Data Sheet.

**Customs tariff code:** 390690.90

**Properties:**

|                        |  |
|------------------------|--|
| Chemical type:         | Anionic acrylic polymer in aqueous solution. |
| Appearance:            | Liquid                                       |
| Colour:                | Brown  |
| Odour:                 | Acrylic                                      |
| pH 1% solution:        | 7.0 - 7.5                                    |
| Solubility in water:   | Miscible                                     |
| Boiling point:         | ≈ 100°C                                      |
| Freeze/thaw stability: | Good   |
| Specific gravity:      | 1.3g/cm <sup>3</sup>                         |
| Other:                 | Slippery when wet.                           |