

# TRAMFLOC, INC.

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## Technical Information Bulletin

### TRAMFLOC® 1057 FRICTION REDUCER

#### ***Product Description***

Tramfloc® 1057 is an anionic polyacrylamide of medium molecular weight and moderate charge density. Tramfloc® 1057 is supplied as a stable, high density emulsion. Tramfloc® 1057 is completely water soluble and produces high viscosity solutions at very low concentrations.

#### ***Uses***

Tramfloc® 1057 is used in heavy brines to promote hole stability, increase penetration rates, offer better well development, produce consistent mud properties, control fluid loss to the formation, minimize problems with sloughing shales. These formulations are efficient friction reducers when used in water-based fracturing fluids and are capable of reducing pressure losses due to friction by amounts in excess of 70%.

#### ***Make-Down***

It is recommended that stock solutions, 0.2-0.5%, be prepared from which feed solutions, 0.05-0.1%, are then made.

#### ***Packaging***

Tramfloc® 1057 is available in 470# net weight drums, tote bins, and in bulk.

#### ***Handling and Storage***

Polymer solutions should be made-down and diluted in stainless steel, FRP or plastic vessels. Amphoteric metallic components should be avoided. Make-down water temperatures should be between 60-85° F. Tramfloc® 1057 should be stored in a cool, dry place.

#### ***Safety and Health***

Spills of polymer are extremely slippery. Precautions should be taken to prevent them from entering lakes or streams. Tramfloc® Polymer Cleaner 348 can be used to remove residue from equipment and floors. Polymer can be flushed with copious amounts of water and disposed of according to local regulations or treated with an absorbent material, then collected for subsequent legal disposal. Tramfloc® 1057 has been shown to exhibit a low order of toxicity. Nevertheless, precaution should be taken to prevent inhalation, ingestion or contact with skin or eyes. Observing basic industrial hygiene precautions should prevent any health or safety hazards.

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