POLYMER TECHNOLOGY FOR THE OIL & GAS INDUSTRY
Overview

SNF provides advanced polymer technologies to help improve the performance and profitability of oil and gas extraction operations - all with a focus on safety. Our global presence can lend expertise to support your business – wherever that might be. Backed by world-class equipment and engineering support, highly qualified applications specialists, quality and efficient manufacturing, and supply chain management, SNF is a recognized leader in the development of high-performance chemical solutions designed to meet or exceed the needs of our customers. SNF offers a broad range of products formulated to provide cutting-edge solutions for Drilling, Cementing, Stimulation, Production, Enhanced Oil Recovery, and Oil Sands applications.
Application Areas

Drilling

SNF has developed a wide range of polymers for water-based drilling fluid systems. These polymers cover one, or several, drilling fluid requirements such as fluid loss control, viscosity improvement, and dispersion.

- Reduce fluid loss
- Stabilize shale and clay
- Improve and control rheology
- Isolate water and/or thief zones
- Dewater and reduce waste costs

Cementing

SNF’s years of experience in the creation, manufacturing, and supply of polymers to the oil and gas industry has led to the development of a series of polymers specifically designed for cementing applications. Different additives are often needed as drilling operations go deeper into the formation.

- HTHP fluid loss control up to 500°F
- Gas migration control
- High levels of salt tolerance
- Improved cement placement in the annulus
- Improved adhesion to casing and formation
- Improved density control
Stimulation

SNF provides products to solve multiple challenges in fracturing oil and gas wells. Our products include both liquid and dry friction reducers which perform in a range of produced waters, clay and shale stabilizers that are compatible with most frac formulas, and scale inhibitors that do not hinder the performance of other additives. Multiple manufacturing and stocking locations allow SNF to provide products on time, where you need them.

- Performance in freshwater to heavy brine
- Low dose clay stabilizers reduce additives and lower costs
- Compatibility with most fracturing formulations
- Reliable supply

Production

SNF offers scale inhibitors that can handle your most challenging problems from calcium carbonate scale to barium/strontium sulfate scale in down-hole or in surface equipment. Additionally, SNF offers dewatering and de-oiling agents which have been proven to solve some of the toughest separation problems. All of these products, are available in both liquid and dry versions to meet your transportation and product application needs.

- Products designed to prevent multiple scale types
- Performance in HTHP conditions
- Improved water/oil separation
- Global product supply
Enhanced Oil Recovery (EOR)

Among Chemical Enhanced Oil Recovery (CEOR) methods, polymer flooding is a straightforward technique with a long commercial history and proven results. This consists of injecting polymer-augmented water into a subterranean formation increasing the water viscosity, the sweep efficiency in the reservoir, and providing mobility control between water and hydrocarbons. Polymer flooding can yield a significant increase in oil recovery compared to conventional water flooding techniques.

- Accelerate oil recovery, improving the NPV of projects
- Reduce water cycling and lower water handling costs
- Help recover 1 STB of oil per pound of polymer injected
- Innovative polymer chemistry for high temperature, high TDS brines

SNF has been committed to delivering cost-effective, high performance products and systems to the Canadian Oil Sands since 2002. SNF experts help operators solve problems unique to Oil Sands applications. Our Oil Sands experience is inherently beneficial due to the complexity and ever changing process and tailings issues faced by the industry. SNF personnel work with our customers to help them optimize their extraction process and tailings management operations, increasing customer revenue while complying with regulatory directives. SNF understands the challenges Oil Sands operators face. SNF offers a portfolio of products that handle:

- Increased extraction recovery across a wide range of bitumen characteristics
- Customized water treatment programs for SAGD and mining operations
- Proven polymer product performance and service support
- World-class logistical support - regardless of project location or environment
- Highly efficient polymer hydration and feed systems
- Total package offering from treatability studies to long-term major projects
SNF produces synthetic polymers in a variety of physical forms, molecular weights, and compositions for specific oil and gas applications. All of these products are designed to help our clients maximize operational and production efficiencies, while reducing overall costs and impact on the environment. Our portfolio includes:

- Bentonite Extenders
- Clay Stabilizers
- Completion Fluid Additives
- Dispersants
- Drag Reducers
- Drilling Fluid Additives
- Flocculants and Coagulants for Dewatering
- Fluid-Loss Control Additives - Cementing
- Fluid-Loss Control Additives – Drilling
- Friction Reducers
- Guar Alternatives
- Low Viscosity Fluids
- Metal Precipitants
- Rheology Control Additives
- Scale Inhibitors
- Shale Inhibitors
- Viscosifiers

**Equipment**

- Polymer Storage, Makedown, and Dose Control Systems
Contact

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