



Chemical Solutions Inc.



oil & gas

oil & gas

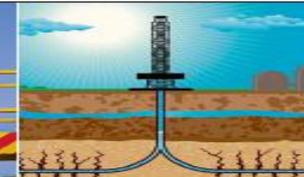


3F Chimica has built two dedicated production facilities. These facilities manufacture acrylate and acrylamide based polymers for the oil and gas industry. With these strategically positioned facilities, 3F Chimica is a leading international manufacturer of polyacrylamides. **LGA Chemical Solutions** can provide you these products according to your necessities.

In addition, new production lines for monomers have been established at the Aberdeen, Mississippi, facility to ensure a continuous supply of polyacrylamide polymers for customers.

Innovative production methods allow 3F Chimica to produce highly soluble, ultra high molecular weight products in powder form that are unique for this sector. In specific applications, these polymers in powder form can replace liquid products to provide improve performance and minimize environmental impact.





FUNCTIONALITY

3F Chimica can provide performance enhancing and problem solving effects for oilfield companies with demanding issues and environments.

Being world leaders in acrylate and acrylamide chemistries alongside strategically located manufacturing facilities and raw material integration, 3F Chimica manufactures products that demonstrate the following (but not limited to) functionalities:

- Shale swell inhibition
- Bentonite extension
- Fluid loss
- Friction reduction
- Flocculation
- Thinning
- Viscosification
- Scale inhibitors
- Polymer flooding
- Water mobility control
- Reverse demulsification
- Water clarification
- Defoaming

DRILLING

3F Chimica has developed a wide range of polymers designed to provide enhanced performance for water based drilling muds. As drilling operators face increasing environmental challenges, water based drilling muds are increasingly gaining popularity meaning performance additives from 3F Chimica become increasingly critical throughout the drilling phase. Some of the primary effects that can be created are as follows:

- Removal of cuttings from the wellbore.
- Formation of filter cake on the wellbore walls by virtue of filtrate loss properties.
- Suspension of cuttings.
- Density control of the mud to control down-hole pressure.
- Retardation of shale swelling.

DRILLING

3F Chimica provides a range of additives for cementing applications, substantially for the modification of slurry properties and clean up and disposal of fluids after the completion of the job.

Primary applications for 3F Chimica additives are:

- Ground works / foundations that utilize water based fluids to support earthworks for concrete piling.
 - Slurry wall trenching.
 - Tunneling (horizontal drilling).
- The success of each job lies in the design of the cement slurry and 3F Chimica helps to provide some of the keys to this success.

STIMULATION

Supporting a wide variety of technical requirements in stimulation chemistry, 3F Chimica provides performance enhancing additives for matrix acidizing and fracturing fluids and treatments.

These treatments, containing key ingredients from 3F Chimica, allow for:

- Etching of the near well-bore formation to improve permeability.
- Assistance in propagating fractures in rock layers, by means of pressurized fluids, to release oil, natural gas, coal seam gas etc.

3F Chimica remains at the forefront of research and development of additives for stimulation to cope with ever changing environmental regulations and water reuse programmes.

PRODUCTION CHEMICALS

3F Chimica provides a wide range of additives for use within production chemicals, specifically for down hole chemicals and injection water treatment.

Effects that can be provided by 3F Chimica additives can be specified as follows:

- Scale inhibition in a range of different environments such as high temperatures, high pressures, and high salinity.
- Oily / water separation to allow for water re-injection or discharge via reverse demulsification or traditional coagulation and flocculation techniques.

3F Chimica can be relied upon to provide superior effects and solve specific production problems. As wells become deeper and more complex the innovative capabilities of 3F Chimica can help our customers improve their production.

EOR

Enhanced oil recover (EOR) processes are designed to increase the quantity of material extracted.

3F Chimica's Polysweep polymers increase water viscosity producing a considerable improvement in raw material recovery. Permeability and mineralogy studies combined with the use of Polysweep polymers results in improved extraction efficiency. The addition of Polysweep polymers results in:

- Improved volume of the fluid and the viscosity.
- Reduced material loss.
- Reduced costs.

3F Chimica's ability to design polymers for specific field conditions and meet specific rheology requirements ensures our customers have the necessary support to maximize their output.

SEDIFLOC SERIES
polyacrylamides in powder or emulsion form
(shale swell inhibition and flocculation / clean-up)

SEDIFLOC FL SERIES
(fluid loss)

SEDIFLOC 331A and 530A
(viscosification)

DISPERSAN SERIES
(thinners)

SEDIFLOC SERIES
polyacrylamides in powder or emulsion form (flocculation)

POLIFLOC SERIES
coagulants
(coagulation)

POLYPUSH SERIES
(friction reduction)

DISPERSAN SERIES
(scale inhibition)

SEDIFLOC
cationic polyacrylamides in emulsion and LDP form (acid viscosification)

SEDIFLOC and POLIFLOC SERIES
for effluent / clean up operations
(flocculation and coagulation)

POLYSWEEP
polyacrylamides (water control polymers)

DISPERSAN
(scale inhibition)

SEDIFLOC SERIES
polyacrylamides in emulsions and powder form (water clarification)

POLYSWEEP SERIES
POLYFLOW SERIES
DISPERSAN SERIES

Modified Anionic polyacrylamides
in powder form

Engineered Mw Anionic polyacrylamides
in emulsion and powder form

Anionic and Cationic polyacrylamides in fast
hydration emulsion and powder form

POLYFLOW SERIES

3F Chimica's Polyflow ranges of modified polyacrylamides provide exceptional solutions in thickening and enhanced tailings management. The Polyflow range offers various benefits which include improved and rapid recovery of water liquor, maximization of life of existing disposal areas and quicker trafficable surfaces. Utilization of our Polyflow range minimizes water consumption whilst maximizing recovery, reducing land required for tailings disposal and minimizing the costs associated with rehabilitation of this land

POLYSWEEP SERIES

3F Chimica's range of Polysweep polymers can be utilized for enhanced oil recovery process through polymer flooding techniques. Polysweep polymers can be modified to meet the wide range of reservoir conditions to improve the sweep efficiency in the hydrocarbon reservoir.

POLYPUSH SERIES

3F Chimica's Polypush ranges of friction reducers, available in emulsion and powder form, have been engineered to provide superior friction reduction capabilities in a variety of stimulation fluids and field conditions. With a portfolio including products from a wide range of ionicities 3F Chimica provides operators with an invaluable choice depending on the additional additives they utilize. All Polypush friction reducers have been designed to activate quickly in high brines and provide rapid hydration to allow for high levels of pressure reduction.

Polyacrylamides in powder and
emulsion form

Dispersants

Modified Inorganic Coagulants

SEDIFLOC SERIES

3F Chimica's Sedifloc range of non ionic, anionic and cationic polyacrylamides are available in emulsion and powder form to provide exceptional flocculation functionality through a vast array of oilfield applications. With varying ionicities, Mw's, polymer branching and structuring, 3F Chimica provides operators with invaluable choices when considering fluid clean up operations, effluent treatment and water clarification to allow for water reuse or discharge.

DISPERSAN SERIES

The Dispersan series of dispersants and antiscalants are polymer based on homopolymers, copolymers and terpolymers utilizing acrylic acid as a base. These highly effective products are used in a variety of applications including, but not limited to: creation of high solids, low viscosity mineral slurries such as calcium carbonate, kaolin, talc, etc; scale inhibition of various calcium, magnesium, iron, barium, strontium, etc, salts; reduction of viscosity and gel strength of drilling muds.

POLIFLOC SERIES

Polifloc Series coagulants are water-soluble primary coagulants consisting of highly cationic polymers. The high concentration of active ingredients make them a more valid and effective alternative to traditional inorganic iron, aluminum and zinc salts for industrial wastewater clarification. The Polifloc range of products are effective over a wide pH range and at low concentrations. They reduce the volume of sludge produced, as they form compact flocs that facilitate filtration and sedimentation. Polifloc polymers dramatically reduce the total solids and suspended solids, and significantly reduce the COD and total phosphorus concentration.

POLYMER LEADER





3F Chimica S.p.A.
Via L. Galvani, 40 Z.I. - 36066 Sandrigo
(Vicenza) - Italy
Tel. +39 0444 750039 - Fax +39 0444 657185
info@3fchimica.com
www.3fchimica.com

LGA Chemical Solutions, Inc
8930 Wurzbach Rd. Suite 240 San Antonio, TX.
78240
Tel. (956) 533 79915
www.lgachemsol.com
info@lgachemsol.com

Omega Chemicals, S.A. de C.V.
Eje 120, Zona Industrial
San Luis Potosí, México 14060
Tel. +444 824 5682
www.omchemicals.com