Max Gel® viscosifier

Max Gel® viscosifier is a high-yield bentonite clay, capable of yielding more than twice as much viscosity as regular Wyoming bentonite. This easily mixed product provides superior hole cleaning, filtration and thin cake development and excellent suspension qualities for use in freshwater drilling fluids. Advantages include:

- 220-bbl yield for more than twice the viscosity of API standard bentonite
- Finer grind offers easy mixing and rapid hydration
- Provides superior hole cleaning and suspension
- Provides excellent filtration control with thin cake value

Clay-inhibition polymers

Poly-Plus™ liquid polymer is designed to provide cuttings encapsulation and clay stabilization. It enhances the inhibitory qualities of a Max Gel® mud. Poly-Plus™ liquid also acts as a viscosity-thickening reducer, and flocculant. Poly-Plus™ LV is a dry, low-viscosity version that offers the same benefits. Poly-Plus™ LV will not blind shaker screens.

Advantages include:

- Provides excellent cuttings encapsulation and limits cuttings dispersion
- Provides excellent clay stabilization to minimize scale problems
- Enhances removal of oil-based fluids by retarding dispersion tendencies
- Helps to maintain bit balling

Filtration-control polymers

PlatinuM Pac™ additive is a readily dispersible polyanionic cellulose polymer and is specially treated to mix easily in water. It is designed to control fluid loss and improve the filtration qualities of Max Gel® muds as well as acting as a borehole stabilizer. PlatinuM Pac™ polymer will also improve the quality of foam to enhance the carrying capacity. PlatinuM Pac™ is also available for applications where minimal viscosity increases are desired.

Advantages include:

- Special coating that allows the product to be mixed without clumping
- Effective at low concentrations to lower fluid loss
- Produces a thin, tough filter cake in Minisheen fluids
- Helps inhibit hydration of water-sensitive drill solids
- Functions over a wide range of salinity, hardness and pH levels

Plugs and grouts

KwiK-PluG® products are screen-sized natural Wyoming bentonite and are used to seal and plug earthen boreholes. Available in fine, medium and coarse sizes, the KwiK-PluG® granular and chipped bentonite is screened and sized to plug and seal any type of borehole or annular space.

Smooth Grout® 20 is a dry, low-viscosity cementing composition containing high-swelling sodium montmorillonite clay. It is designed for use in water wells and monitoring wells to seal the annular space around well casing and for plugging drilled holes and abandoned wells.

Smooth Grout® 30 is a dry, low-viscosity cementing composition containing high-swelling sodium montmorillonite clay. It is designed for use in water wells and monitoring wells to seal the annular space around well casing and for plugging drilled holes and abandoned wells.
Attending to environmental concerns

M-I SWACO people operate with an awareness of the environment and a sense of responsibility for protecting it. This awareness has guided and driven a company-wide program of product development. Environmental and sustainability goals are a priority in our businesses, and we continue to expand our capabilities to help our customers achieve Greenhouse and soil laboratory
Our laboratory helps meet the need for internal product development and for use in developing and testing procedures as tools for regulatory agencies. Special testing takes place here to determine the characteristics of well-filling wastes as a beneficial reuse product.

Analytical laboratory
This laboratory performs environmentally oriented analyses: highly accurate determinations of basic metals, inorganic and hydrocarbons, specific parameters of organics, such as oil and grease content, and determinations of inorganics.

We deliver what you need, when and where you need it
With M-I SWACO HDD Mining & Waterwell specialists, when you begin a project you don’t have to worry about not having products on location. From the M-I SWACO-operated bentonite mine in Greybull, Wyoming to a worldwide network of distributors, we have in place a strategic and timely product availability system for all segments of the market. To find out more about how we have helped customers worldwide meet their objectives in the most demanding applications, contact your local M-I SWACO HDD Mining & Waterwell representative.
Max Gel® viscosifier

Max Gel® viscosifier is a high-yield bentonite clay, capable of yielding more than twice as much viscosity as regular Wyoming bentonite. This weakly mixed product provides superior hole cleaning, filtration control with thin wall-cake development and excellent suspension qualities for use in freshwater drilling fluids. Advantages include:

- 220-bbl yield for more than twice the viscosity of API standard bentonite
- Finer grind offers easy mixing and rapid hydration
- Provides superior hole cleaning and rapid hydration
- Provides excellent filtration control with thin wall-cakes

Clay-inhibition polymers

Poly-Plus® liquid polymer is designed to provide cuttings encapsulation and clay stabilization. It enhances the inhibitive qualities of a Max Gel® mud. Poly-Plus® liquid polymer also acts as a viscosity thickeners, retard and flocculate. Poly-Plus® is a dry low-viscosity version that offers the same benefits. Poly-Plus® will not blind shaker screens.

Advantages include:

- Provides excellent cuttings encapsulation and limits cuttings dispersion
- Provides excellent clay stabilization to minimize hole problems
- Eliminates removal of cuttings solids by retarding dispersion tendencies
- Helps to minimize bit balling

Filtration-control polymers

PlatinuM Pac® additive is a readily dispersible polyacrylic acid polymer and is specially treated to mix easily in water. It is designed to control fluid loss and improve the filtration qualities of a Max Gel® mud as well as acting as a borehole stabilizer. A unique polyacrylic acid polymer will also improve the quality of borehole fluids to enhance the borehole carrying capacity. PlatinuM Pac® is also available for applications where minimal viscosity increases are desired.

Advantages include:

- Special coating that allows the product to be mixed without clumping
- Effective at low concentrations to lower fluid loss
- Produces a thin, rich, tough filter cake in water-based fluids
- Helps reduce hydration of water-sensitive clay solids
- Functions over a wide range of salinity, hardness and pH levels

Plugs and grouts

KwiK-PluG® products are screen-sized natural Wyoming bentonite and are used to seal and plug earthen boreholes. Available in fine, medium and coarse sizes, the American family of granular and chipped bentonite is screened and sized to plug and seal any type of borehole or annular space.

Advantages include:

- Special coating that allows the product to be mixed without clumping
- Effective at low concentrations to lower fluid loss
- Produces a thin, rich, tough filter cake in water-based fluids
- Helps reduce hydration of water-sensitive clay solids
- Functions over a wide range of salinity, hardness and pH levels

SMooth Grout® 20 slurry is an easy-to-use borehole grouting composition containing high swelling sodium montmorillonite clay. It is designed for use in water wells and monitoring wells to seal the annular space of well casing and for plugging drilled holes and abandoned wells.

Advantages include:

- Special coating that allows the product to be mixed without clumping
- Effective at low concentrations to lower fluid loss
- Produces a thin, rich, tough filter cake in water-based fluids
- Helps reduce hydration of water-sensitive clay solids
- Functions over a wide range of salinity, hardness and pH levels

SMooth Grout® 30 bentonite grouting composition contains high swelling sodium montmorillonite clay. It is designed for use in water wells and monitoring wells to seal the annular space around the well casing and for plugging drilled holes and abandoned wells.

Advantages include:

- Special coating that allows the product to be mixed without clumping
- Effective at low concentrations to lower fluid loss
- Produces a thin, rich, tough filter cake in water-based fluids
- Helps reduce hydration of water-sensitive clay solids
- Functions over a wide range of salinity, hardness and pH levels

HDD Mining & Waterwell

Engineered Solutions for Minerals Exploration
Attending to environmental concerns

M-I SWACO people operate with an awareness of the environment and a sense of responsibility for protecting it. This awareness has guided and driven a company-wide program of product development. Environmental applications focused on protection and sustainability. Among the many environmental capabilities we use to help our customers are:

Bioassay and analytical services

Our bioassay facility offers the most complete and advanced technology in the industry, conducting freshwater and marine ecotoxicological tests on individual additives, systems, laboratory-prepared drilling fluids and field-collected samples.

Greenhouse and soil laboratory

We have established our own greenhouse and soil laboratory for internal product development and for use in developing and testing procedures as tools for regulatory agencies. Special testing takes place here to determine the characteristics of air-filling wastes as beneficial reuse products.

Analytical laboratory

This laboratory performs environmentally screened analysis, highly accurate determinations of basic metals, inorganic and hydrocarbons, specific parameters of organics, such as oil and grease, and determinations of inorganics.

Wherever you work, you can depend on M-I SWACO HDD Mining & Waterwell specialists to keep your projects on target. As the industry leader in providing complete drilling-fluid systems and additives, solid-core control, equipment, and engineering services, we have the knowledge and resources to custom-design solutions to meet the unique requirements of your project, regardless of its complexity. Our highly trained drilling-fluid specialists are dedicated to delivering high-quality expertise.

Whatever the hole problem are, whether it’s poor recovery, hole collapse, high torque or sticking дисы, we have the product to address these issues based on experience and field service engineers to ensure the products are applied correctly. Independent of the type of drilling – air, RC, conventional or cased, we have the products to achieve hole stability, cleaning and optimum conditioning. From reactive shale to unconsolidated formations to fractured rocks, the environmentally friendly products available from M-I SWACO are all designed to maximize hole stability and optimize core recovery.

Max Gel® high yield, fine-pouring bentonite mixes very easily and provides viscosity and cutting suspension. It also provides a high quality blue color to help stabilize unconsolidated formations.

The Platinum Pac® family of readily dispersible Pac products helps enhance the filtration control properties of Max Gel® and stabilize the borehole.

When encountering troublesome shales, the Poly-PluS® family of polymers are the product of choice. Their powerful inhibitive qualities help stabilize these problematic shales.

Rod Ease® lubricant helps minimize torque issues by providing excellent lubricity. This environmentally friendly lubricant also helps to reduce wear on rods and equipment.
Attending to environmental concerns

M-I SWACO people operate with an awareness of the environment and a sense of responsibility for protecting it. This awareness has guided and driven a company-wide program of product development. Environmental and application-focused research and sustainability form a major focus for M-I SWACO as we deliver the products and service you need, when you need it, wherever you need it.

Greenhouse and soil laboratory
Our greenhouse facility offers the most complete and advanced technology in the industry. This laboratory, which is equipped with controlled environments, is used for soil analysis and for testing procedures as tools for regulatory agencies. Special testing takes place here to determine the characteristics of a drilling waste as a beneficial reuse product.

Analytical laboratory
This laboratory performs environmentally oriented analysis, highly accurate determinations of basic metals, aromatics and hydrocarbons, specific parameters of organics, such as oil and grease content, and determinations of radionuclides.

Max Gel®
High yield, porous fractured bentonite moves very easily and provides effective viscosity and cuttings suspension. It also provides a high quality filter cake to help stabilize unconsolidated formations.

The PlatinuM Pac® family of readily dispersible Pac products helps enhance the filtration and control properties of Max Gel and stabilize the borehole.

Rod eaSe®
A lubricant that helps reduce torque issues by providing excellent lubricity. This environmentally friendly lubricant also helps to reduce wear on rods and equipment.

When you need it....

Where you need it!
Max Gel viscosifier
Max Gel viscosifier is a high-yield bentonite clay, capable of yielding more than twice as much viscosity as regular Wyoming bentonite. This weakly treated product provides superior hole cleaning, filtration, and carry with thin-walled hole development and excellent suspension qualities for use in freshwater drilling fluids.

Advantages include:
- 220-bbl yield for more than twice the viscosity of API standard bentonite
- Finer grind offers easy mixing and rapid hydration
- Provides superior hole cleaning and suspension
- Provides excellent filtration control with thin filter cakes

Clay-inhibition polymers
Poly-Plus liquid polymer is designed to provide cuttings encapsulation and clay stabilization. It enhances the inhibitive qualities of a Max Gel mud. Poly-Plus slurry also acts as a viscosity-inhibitor reducer, and flocculant. Poly-Plus Ultra is a dry low-viscosity version that offers the same benefits. Poly-Plus LV will not blind shaker screens.

Advantages include:
- Provides excellent cuttings encapsulation and limits cuttings dispersion
- Provides excellent clay stabilization to minimize clay problems
- Facilitates removal of drilled solids by reducing dispersion tendencies
- Helps to maintain bit balling

Filtration-control polymers
PlatinuM Pac additive is a readily dispersible polymeric cellulose polymer and is specially treated to mix easily in water. It is designed to control fluid loss and improve the filter cake qualities of Max Gel muds as well as acting as a borehole stabilizer. PlatinuM Pac polymer will also improve the quality of foam and in drilling muds.

Advantages include:
- Special coating that allows the product to be mixed without clumping
- Effective at low concentrations to lower fluid loss
- Produces a fine, slick, tough filter cake in Max Gel fluids
- Helps inhibit hydration of water-sensitive drill solids
- Functions over a wide range of salinity, hardness and pH levels

Plugs and grouts
KwiK-PluG products are screen-sized natural Wyoming bentonite and are used to seal and plug earthen boreholes. Available in fine, medium, and coarse sizes, the KwiK-PluG family of granular and chipped bentonite is screened and sized to plug and seal any type of borehole or annular space.

Advantages include:
- Special coating that allows the product to be mixed without clumping
- Effective at low concentrations to lower fluid loss
- Produces a fine, slick, tough filter cake in Max Gel fluids
- Helps inhibit hydration of water-sensitive drill solids
- Functions over a wide range of salinity, hardness and pH levels