



# CATALOGUE

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## **STETON MACHINERY (M) SDN BHD**

**MACHINERY • FLUIDS • ENGINEERING • SERVICE**

**Steton Machinery (M) Sdn Bhd (SMSB)** is a trusted and experienced solutions provider in the global Horizontal Directional Drilling (HDD) and trenchless construction industry. With strong technical foundations and years of field involvement, we serve as a complete partner for HDD machinery, HDD drill pipes, downhole tools, drilling fluids, locating systems, gyroscopic technology, and specialised engineering support. Our goal is to ensure smooth, precise, efficient, and environment friendly underground installations across all project conditions.

We represent globally recognised brands with proven reliability. As the authorised distributor of STETON HDD Rigs, SINOMUD Drilling Fluids, and SMARTDRILL non-magnetic wireline guidance systems, we deliver products backed by long-standing international manufacturing expertise.

Our strength is our practical experience. With backgrounds in drilling operations, machine service and maintenance, non-magnetic pilot boring guidance, HDD tooling selection, drilling-fluid design, gyroscopic mapping, and trenchless project planning, we offer more than equipment supply. We provide complete, field-tested solutions tailored to diverse geological environments and complex installation demands.

Steton is known for reliability, technical clarity, and responsive support.

From equipment and drill pipes to tooling configuration, fluid programs, specialised training, non-magnetic wireline guidance, and gyroscopic mapping, we focus on delivering the right tools, the right knowledge, and the right assistance exactly when needed.

Success in drilling comes from the synergy of machinery, fluids, tooling, and human expertise. By combining globally trusted technology with real-world operational insight, Steton delivers integrated solutions that make every bore more efficient, every project safer, and every partnership stronger.

**Steton Sets the Standard.**

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## STETON MACHINERY (M) SDN BHD

### AUTHORISED DISTRIBUTOR OF SINOMUD DRILLING FLUIDS (MALAYSIA & SINGAPORE)

Sinomud is a globally established manufacturer of drilling fluids and specialty chemical systems headquartered in China, serving the international drilling industry with high performance and cost effective solutions. The company develops and produces a comprehensive portfolio of bentonite, polymers, lubricants and advanced additives designed to optimise drilling efficiency, stabilise boreholes and enhance overall project performance. With a strong emphasis on research, quality control and continuous product innovation, Sinomud has earned the trust of drilling contractors and engineering firms across mining, geotechnical, HDD, water well, geothermal and tunnelling sectors worldwide.

Steton Machinery is the authorised distributor of Sinomud drilling fluids and additive systems in Malaysia and Singapore. Sinomud is a globally recognised manufacturer based in China, producing a comprehensive range of bentonite, polymers, lubricants and specialty additives engineered for mineral exploration, geotechnical drilling, HDD and tunnelling applications. Renowned for consistent quality and continuous technical innovation, Sinomud products are trusted by drilling professionals worldwide.

Through this partnership, Steton integrates Sinomud's proven product technology with strong local expertise and responsive support to deliver reliable solutions tailored to Southeast Asian ground conditions. With stock availability in Klang Valley and Johor, supported by an established logistics network serving Peninsular Malaysia, East Malaysia and Singapore, customers benefit from efficient regional distribution and dependable supply. Backed by experienced field engineers providing technical advisory and on site assistance, Steton and Sinomud are committed to powering exploration from core to completion with performance, precision and confidence.



## Sinomud Product Overview

Drilling Fluids, Additives & Support Products for Mineral Exploration and Geotechnical Drilling

**Steton Machinery supplies a complete suite of bentonite-based drilling fluids, polymers, lubricants, and support additives** engineered to handle the full range of conditions encountered in mineral exploration, soil investigation, and coring works.

Each product is field-tested, locally stocked, and supported by practical technical advice to help drillers achieve stable boreholes, efficient cuttings removal, and consistent core recovery, while our lubricants help maintain smooth drilling operations and extend the service life of rods, tools, and joints.

With distribution points in Klang Valley and Johor, and established logistics reaching **East Malaysia and Singapore**, Steton ensures dependable supply and support wherever your projects operate.

## Snomud Product Overview Table



Summary of drilling fluid products and their core functions, applications, and key advantages.

PRODUCT NAME	MAIN FUNCTION	TYPICAL APPLICATIONS	KEY ADVANTAGES
<b>STANDARD BENTONITE</b>			
<b>CX Ben / CX Gel</b>	Builds viscosity & provides filtration control	Mineral exploration and soil investigation drilling	Consistent performance & easy mixing with stable wall cake formation
<b>HIGH-YIELD BENTONITE</b>			
<b>Super Gel</b>	High viscosity clay for hole cleaning & suspension	Deep coring, HDD, and tunnelling operations	Exceptional yield & quick hydration with superior cuttings transport
<b>SALT-RESISTANT CLAY</b>			
<b>Anti-Salt Gel (Attapulgate)</b>	Maintains viscosity & gel strength in saline water	Coastal, marine, or saline groundwater conditions	Excellent salt tolerance & resistance to degradation in brine systems
<b>POLYMER ADDITIVES</b>			
<b>Super Poly</b>	Enhances viscosity & improves hole cleaning	Sandy, gravelly, or loose formations	High carrying capacity & efficiency at low dosage
<b>Foundation Polymer</b>	Forms thin wall filter cake & reduces fluid loss	Collapsing or unstable soil formations	Strengthens borehole wall & improves hole stability
<b>CX Trol</b>	Controls filtrate loss & stabilises formations	Permeable or fractured ground conditions	Compatible with all bentonite systems & easy to mix
<b>Poly XCD</b>	Boosts viscosity & cuttings suspension	Deep holes and extended drilling intervals	Excellent suspension & improved penetration rate
<b>FIL</b>	Minimises filtrate invasion & fluid loss	Permeable and fractured formations	Improves wall cake & enhances borehole stability
<b>CORE FIX</b>	Stabilises borehole wall & improves core recovery	Soft, fractured, or unconsolidated formations	Reduces washout & enhances core quality
<b>SHALE INHIBITOR</b>			
<b>CHP</b>	Prevents clay swelling & reduces friction	Reactive clay, shale, or sticky formations	Stabilises clays & reduces torque while improving drilling smoothness
<b>LUBRICANTS &amp; GREASES</b>			
<b>Rod Grease</b>	Reduces friction during rod handling & connections	Coring and HDD rod makeup and breakout	Ensures smooth operation & protects against rust & wear
<b>Copper Thread Grease</b>	Prevents galling & thread seizure	Tool joints and high temperature threaded areas	Ensures easy disassembly & withstands high temperature conditions
<b>SUPPORT ADDITIVES</b>			
<b>Plug</b>	Seals voids & controls lost circulation	Fractured, porous, or gravel rich formations	Provides quick sealing response & easy on site application
<b>Form Plus</b>	Foam based hole cleaning & cuttings removal agent	Air drilling and soft or dry formations	Delivers efficient cuttings lift & reduces water consumption
<b>Thinner</b>	Reduces viscosity & reconditions over gelled mud	Clay rich or high solid fluid systems	Restores flow properties & improves mud circulation
<b>Bentonite Pellet</b>	Borehole & casing annulus sealing material	Borehole abandonment and annular sealing	Simple handling & reliable long term sealing performance

**STANDARD BENTONITE**



**CX BEN**  
Bentonite for Foundation and Geotechnical Drilling



**CX GEL**  
High-Yield Bentonite for HDD and Complex Drilling Conditions

**Type** : Sodium-Based Bentonite  
**Function** Viscosity builder & filtration-control agent

**Product Description**

CX Ben is a high-quality sodium bentonite developed for foundation, piling, and geotechnical drilling. It mixes easily in freshwater to produce stable viscosity and a thin, durable filter cake that supports borehole walls and improves hole stability in shallow to medium-depth formations.

Ideal for rotary, percussion, and auger-type applications, as well as diaphragm wall and ground-stabilisation works, where consistent mud properties and reliable wall support are required.

**Key Benefits**

- Develops viscosity quickly and maintains stable rheology during drilling
- Forms a thin, impermeable wall cake to minimise fluid loss and prevent bore collapse
- Easy to mix and compatible with polymer additives such as CX Trol and CHP
- Reliable performance across a wide range of soil and overburden conditions

**Recommended Use**

- Mix 20 – 25 kg per 1000 litres of freshwater (adjust to formation)
- Condition make-up water for best yield when possible

**Typical Applications**

- Foundation and stabilisation drilling
- Bore piling and anchoring works
- Soil investigation and environmental testing
- Diaphragm wall construction and ground improvement projects
- Water-well and dewatering boreholes

**Packaging**

25 kg multi-wall bag | 48 bags per pallet

**Type** : Premium Sodium-Based Bentonite  
**Function** High-viscosity builder & borehole stabiliser

**Product Description**

CX Gel is a premium-grade sodium bentonite formulated for mineral exploration, coring, and deep geotechnical drilling.

It hydrates rapidly in freshwater to produce high viscosity and gel strength, offering superior hole cleaning and suspension capacity.

CX Gel develops a thin, tough wall cake that prevents filtrate loss and maintains borehole stability even in tunnelling and pipe-jacking operations where controlled mud properties

**Key Benefits**

- Higher yield and viscosity compared with standard bentonite grades
- Excellent suspension for cuttings and core recovery at greater depths
- Forms a strong, low-permeability filter cake to minimise fluid loss
- Consistent performance in soft, mixed, and hard ground formations

**Recommended Use**

- Mix 18 – 22 kg per 1000 litres of freshwater (adjust to formation)
- Maintain pH 8.5 – 9.5 for best hydration and yield

**Typical Applications**

- Mineral and coal exploration drilling
- Diamond and rotary coring operations
- Deep geotechnical and ground-investigation drilling
- Tunnelling, pipe-jacking, and pre-grouting works
- Foundation and piling jobs requiring higher viscosity

**Packaging**

25 kg multi-wall bag | 48 bags per pallet

## HIGH-YIELD BENTONITE



### SUPER GEL

High-Yield Bentonite for HDD and Complex Drilling Conditions

**Type** : Premium Sodium-Based Bentonite  
**Function** High-viscosity builder for maximum suspension and borehole stability

#### Product Description

Super Gel is a high-yield sodium bentonite formulated for Horizontal Directional Drilling (HDD) and other demanding drilling operations where maximum hole stability and suspension are required. It mixes easily in freshwater to produce exceptional viscosity and gel strength, enabling efficient cuttings transport and strong wall support even in long or large-diameter bores.

Super Gel is also suitable for pipeline installation, river crossings, and infrastructure tunnelling, where consistent, high-performance mud properties are critical to project success.

#### Key Benefits

- Extremely high yield and rapid hydration for fast mud preparation
- Superior carrying capacity and suspension in long or inclined bore paths
- Builds a strong, low-permeability wall cake that protects the borehole
- Improves hole cleaning and stability in coarse or fractured formations
- Performs reliably in deep, large-diameter, or high-pressure drilling operations

#### Recommended Use

- Mix 15 – 20 kg per 1000 litres of freshwater (adjust to formation)
- Condition make-up water for optimal yield; maintain pH 8.5 – 9.5

#### Typical Applications

- Horizontal Directional Drilling (HDD) – long, curved, or complex bores
- Pipeline installation and river crossings
- Infrastructure tunnelling and utility conduits
- Deep exploration and foundation works requiring strong suspension

#### Packaging

25 kg multi-wall bag | 48 bags per pallet

## SALT-RESISTANT CLAY



### ANTI-SALT GEL (ATTAPULGITE)

Salt-Resistant Clay for Coastal and Marine Drilling

**Type** : Attapulgite Clay  
**Function** Salt-tolerant viscosifier for saline or brine environments

#### Product Description

Anti-Salt Gel is a salt-resistant attapulgite-based drilling clay designed for use in saline, brine, or seawater environments where sodium bentonite loses effectiveness.

It provides stable viscosity, suspension, and filtration control even in high-salinity conditions, making it ideal for coastal, marine, and nearshore drilling applications.

Unlike sodium bentonite, Anti-Salt Gel maintains rheological properties without freshwater dilution, reducing water dependency on offshore or island sites.

#### Key Benefits

- Maintains viscosity and gel strength in seawater or saline formations
- Excellent suspension and hole cleaning in salt-contaminated ground
- Resists flocculation and gel degradation from chloride exposure
- Performs consistently in coastal and offshore operations

#### Recommended Use

- Mix 25 – 35 kg per 1000 litres of seawater or saline water (adjust to formation)
- May be blended with Poly XCD or CHP for enhanced performance

#### Typical Applications

- Coastal and nearshore HDD or cable-landing works
- Marine exploration and seabed coring
- Jetty, offshore foundation, and piling drilling
- Salt-contaminated ground and brine aquifer zones

#### Packaging

25 kg multi-wall bag | 48 bags per pallet

**POLYMER ADDITIVES**



**SUPER POLY**

Liquid Viscosity Enhancer for Sandy and Unstable Formations

**Type** : Liquid Polymer (Anionic Viscosifier)  
**Function** Improves carrying capacity and cuttings transport

**Product Description**

Super Poly is a high-molecular-weight liquid polymer viscosifier designed to improve hole cleaning and suspension in sandy, gravelly, or unstable formations.

It builds viscosity rapidly even at low dosage, providing efficient cuttings transport and wall support.

When blended with bentonite, it enhances gel strength and reduces filtration loss, making it ideal for exploration, HDD, and trenchless drilling applications.

**Key Benefits**

- Rapid viscosity build-up at low dosage
- Improves hole cleaning and prevents cuttings settlement
- Enhances borehole stability in coarse or loose soils
- Compatible with all bentonite and freshwater systems

**Recommended Use**

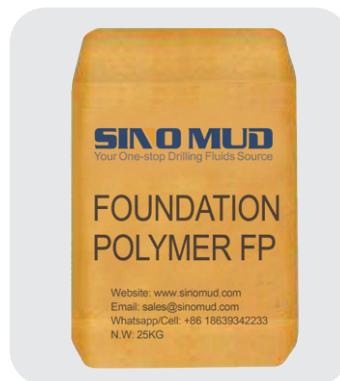
- Mix 0.3 – 0.6 litres per 1000 litres of freshwater (adjust to formation)
- Add slowly into the mud system under moderate agitation

**Typical Applications**

- Horizontal Directional Drilling (HDD)
- Mineral exploration and coring
- Soil investigation and site exploration
- Pipe-jacking and tunnelling lubrication systems

**Packaging**

20 kg drum | 32 drums per pallet



**FOUNDATION POLYMER**

Powder Additive for Wall-Building and Fluid-Loss Reduction

**Type** : Powder Polymer Blend  
**Function** Borehole stabiliser & filtrate-control additive

**Product Description**

Foundation Polymer is a fast-acting powdered polymer formulated to build wall cake and reduce fluid loss in loose, collapsing, or permeable formations.

It enhances cohesive wall strength, reduces washouts, and maintains stable borehole conditions.

Highly effective in foundation, piling, and diaphragm-wall projects, where mud support and filtrate control are essential.

**Key Benefits**

- Builds protective wall cake to prevent collapse
- Reduces filtrate loss in sandy or porous ground
- Improves drilling efficiency and slurry life
- Works effectively with all bentonite systems

**Recommended Use**

- Mix 0.5 – 1.0 kg per 1000 litres of water (adjust to formation)
- Add gradually to bentonite slurry under circulation

**Typical Applications**

- Foundation and piling drilling
- Diaphragm-wall and cut-off trench construction
- Ground-stabilisation and slurry control
- Borehole wall conditioning and filtration management

**Packaging**

25 kg bag | 40 bags per pallet



## CX TROL

**PAC Polymer for Filtrate Control and Borehole Stabilisation**

**Type** : Powder Polymer (Polyanionic Cellulose – PAC)  
**Function** Reduces filtrate loss and strengthens borehole wall

### Product Description

CX Trol is a high-purity PAC polymer formulated to control filtrate loss and improve wall-cake quality in bentonite and polymer-based drilling fluids.

It minimises water loss into permeable formations, maintain consistent fluid properties and borehole stability.

Effective in both freshwater and slightly saline systems, CX Trol provides stable mud viscosity and superior filtrate control during extended drilling operations.

### Key Benefits

- Reduces filtrate loss in permeable or fractured formations
- Improves mud stability and borehole integrity
- Compatible with all bentonite and polymer systems
- Effective at low concentrations for cost efficiency

### Recommended Use

- Mix 0.3 – 0.6 kg per 1000 litres of water (adjust to formation)
- Add gradually under circulation for uniform dispersion

### Typical Applications

- Horizontal Directional Drilling (HDD)
- Tunnelling and pipe-jacking operations
- Mineral exploration and coring

### Packaging

15 kg drum | 32 drums per pallet



## POLY XCD

**Rheology Modifier and High-Performance Viscosifier**

**Type** : Xanthan-Based Biopolymer (Powder Form)  
**Function** Enhances viscosity and carrying capacity under pressure

### Product Description

Poly XCD is a biopolymer viscosifier that provides exceptional carrying capacity and rheological stability in deep, long-distance, or high-pressure drilling operations.

It maintains viscosity even in saline or contaminated water, delivering smooth flow and consistent performance.

Poly XCD is widely used in HDD and mineral exploration drilling, where superior suspension and precise rheology control are required.

### Key Benefits

- Excellent suspension and hole-cleaning performance
- Maintains viscosity in saline or hard-water conditions
- Provides strong gel strength and fluid consistency
- Ideal for deep, inclined, or extended bore paths

### Recommended Use

- Mix 0.3 – 0.7 kg per 1000 litres of water (adjust to formation)
- Add slowly under agitation for full hydration

### Typical Applications

- Horizontal Directional Drilling (HDD)
- Pipeline installation and river crossings
- Mineral exploration and deep coring operations

### Packaging

15 kg drum | 32 drums per pallet

**POLYMER ADDITIVES**



**FIL**  
Fluid Loss Control Polymer



**CORE FIX**  
Borehole Stabiliser and Core Recovery Additive

**Type** : PAC / Cellulosic Polymer  
**Function** Fluid loss control and filtrate barrier improvement

**Product Description**

FIL is a premium-grade fluid loss control additive designed to minimise filtrate invasion into permeable formations and maintain stable borehole conditions.

It improves wall cake quality, enhances fluid retention, and reduces the risk of washouts during drilling. FIL performs effectively in both bentonite- and polymer-based fluids and remains stable across a wide pH range.

**Key Benefits**

- Minimises filtrate loss and fluid invasion
- Improves borehole wall cake and stability
- Compatible with all water-based drilling fluids
- Effective at low dosage, improving cost efficiency
- Stable under varying salinity and temperature conditions

**Recommended Use**

- Add 0.5–1.0 kg per 1000 L of water (adjust to formation)
- Mix gradually under agitation for full hydration

**Typical Applications**

- Mineral exploration and coring
- Geotechnical and HDD drilling
- Fractured or permeable ground conditions

**Packaging**

15 kg drum | 32 drums per pallet

**Type** : Biopolymer-based Core Stabiliser  
**Function** Improves core sample integrity and prevents wall collapse

**Product Description**

CORE FIX is a biopolymer-based stabilising additive formulated to strengthen the borehole wall and enhance core recovery in soft, fractured, or unconsolidated formations.

It forms a thin, cohesive film that binds loose materials, reduces core erosion, and minimises washout. Ideal for mineral exploration and coring operations where high quality core samples are required.

**Key Benefits**

- Improves core recovery and sample integrity
- Forms cohesive film to stabilise weak formations
- Reduces erosion and washout during coring
- Compatible with all water-based mud systems
- Enhances drilling stability and tool life

**Recommended Use**

- Mix 0.5–1.5 kg per 1000 L of water (adjust to formation)
- Add slowly to active system with continuous circulation

**Typical Applications**

- Mineral exploration coring
- Unconsolidated, fractured, or soft formations
- Soil investigation and sampling works

**Packaging**

15 kg drum | 32 drums per pallet

**SHALE INHIBITOR**



**CHP**

**Encapsulating Polymer for Clay and Shale Inhibition**

**Type** : Powder Polymer Additive

**Function** Inhibits clay swelling, encapsulates cuttings, and improves core recovery

**Product Description**

CHP is a high-performance encapsulating polymer formulated to inhibit clay and shale hydration, stabilise reactive formations, and improve core recovery. It works by coating and binding cuttings to prevent disintegration and dispersion, maintaining cleaner, more stable boreholes and higher-quality core samples.

CHP delivers excellent performance in mineral exploration, coring, and geotechnical drilling through clay, mudstone, or shale formations.

**Key Benefits**

- Controls clay and shale swelling, reducing washouts and collapse
- Encapsulates cuttings for cleaner hole conditions
- Improves core recovery and sample integrity in reactive ground
- Reduces bit balling, torque, and drag during drilling
- Compatible with bentonite and polymer-based fluids

**Typical Applications**

- Mineral exploration and diamond coring
- Soil investigation in reactive clay or shale formations
- Geotechnical and hydrogeological drilling
- Stabilisation of reactive clay zones during drilling

**Recommended Use**

- Mix 0.5 – 1.0 kg per 1000 litres of water (adjust to formation)
- Add gradually into the active system while circulating or mixing

**Packaging**

15 kg drum | 32 drums per pallet



LUBRICANTS & GREASES SERIES



### ROD GREASE

Extra-Tacky Lubricant for Drill Rods and Couplings

**Type** : Heavy-Duty Multipurpose Grease  
**Function** Reduces friction, protects threads, and extends drill-rod life

#### Product Description

Rod Grease is a premium, extra-tacky lubricant developed for drill rods, couplings, and fine-thread joints used in mineral exploration and geotechnical drilling. Its high-adhesion, calcium-based formulation forms a durable lubricating film that resists water wash-off, vibration, and torque, maintaining performance up to 200 °C.

Rod Grease protects threads and shoulders from wear, corrosion, and galling—ensuring smoother make-up and break-out cycles and extending the service life of drill-string components.

#### Key Benefits

- Extra-tacky formulation stays in place under vibration and torque
- Reduces make-up torque and prevents seizing or galling
- Excellent resistance to water wash-out and oxidation
- Protects coupling threads from rust and pitting
- Prolongs drill-rod and coupling service life

#### Recommended Use

- Apply evenly to threads, shoulders, and coupling contact zones before connection
- Reapply during rod changes or after cleaning
- Suitable for manual or mechanical application

#### Typical Applications

- Mineral exploration and diamond coring
- Geotechnical and environmental drilling
- Soil-investigation and monitoring boreholes
- Fine-thread rod and coupling systems requiring long-term lubrication

#### Packaging

17 kg drum | 32 drums per pallet



### COPPER THREAD GREASE

High-Temperature Anti-Seize Compound for Threaded Connections

**Type** : Copper-Based Lubricant  
**Function** Prevents galling, corrosion, and seizure under extreme load and heat

#### Product Description

Copper Thread Grease is a high-performance anti-seize compound designed for drill-string threaded connections, tool joints, saver subs, and coupling assemblies operating under heavy torque and elevated temperature.

It forms a tough, conductive protective film that prevents metal-to-metal contact, ensuring smooth make-up and easy break-out even after long service intervals.

With its high copper content, the compound remains effective up to 800 °C, providing exceptional protection against galling, rust, and thread damage in HDD and trenchless-drilling systems.

#### Key Benefits

- Prevents thread galling, seizure, and wear during make-up and break-out
- Maintains consistent torque and load-transfer accuracy
- Provides long-term corrosion and rust protection—even in wet or saline conditions
- Withstands extreme pressure and temperature – effective up to 800 °C
- Ensures joint integrity and simplifies disassembly after long drilling runs

#### Recommended Use

- Clean and dry threads before application
- Apply a thin, even coating over all threaded surfaces
- Suitable for all steel, stainless, and alloy tool - joint connections

#### Typical Applications

- Horizontal Directional Drilling (HDD) tool joints and saver subs
- Threaded connections on drill strings and downhole assemblies
- Coupling and make-up points on heavy-duty rig systems
- High-load or high-temperature drilling environments

#### Packaging

17 kg drum | 32 drums per pallet

**SUPPORT ADDITIVES**



**PLUS**

Lost Circulation Material for Borehole Sealing

**Type** : Granular Cellulosic Fiber Blend  
**Function** Controls fluid loss and seals fractured or porous formations

**Product Description**

Plug is a specially formulated lost circulation material (LCM) designed to seal fractures, voids, and highly permeable zones encountered during drilling.

It contains a balanced mixture of granular, fibrous, and flake components that bridge across openings, forming a tough yet flexible plug to stop fluid loss while maintaining circulation.

Plug performs effectively in both bentonite and polymer-based systems, making it suitable for exploration, geotechnical, and coring operations.

**Key Benefits**

- Rapidly seals porous, fractured, or unstable formations
- Minimises fluid loss and maintains borehole integrity
- Compatible with all water-based drilling fluids
- Does not clog pumps or fluid lines
- Provides reliable sealing for a wide range of ground conditions

**Recommended Use**

- Add 15–30 kg per 1000 litres of drilling fluid, depending on the degree of loss
- For severe losses, spot directly into the affected zone
- Mix slowly under circulation until evenly dispersed

**Typical Applications**

- Mineral exploration and coring
- Geotechnical and soil investigation
- Water-well drilling and borehole stabilisation
- Loss circulation control in fractured or gravel formations

**Packaging**

15 kg drum | 32 drums per pallet



**FOAM PLUS**

Foaming Agent for Air and Foam Drilling

**Type** : Concentrated Liquid Surfactant Blend  
**Function** Generates stable foam for hole cleaning and cuttings removal

**Product Description**

Foam is a highly concentrated foaming agent formulated to produce stable, long-lasting foam for use in air or foam drilling systems.

It improves cuttings removal, reduces bit balling, and stabilises boreholes during drilling through soft, loose, or dry formations.

Foam performs effectively across a wide pH and salinity range and is compatible with both freshwater and polymer additives.

**Key Benefits**

- Generates strong, stable foam with minimal consumption
- Enhances hole cleaning in dry, loose, or unconsolidated ground
- Reduces bit balling and mechanical wear
- Compatible with freshwater or brine systems
- Improves drilling efficiency and penetration rate

**Recommended Use**

- Mix 0.5–2.0 litres per 1000 litres of water, depending on air volume and foam stability required
- Adjust concentration according to formation and compressor output

**Typical Applications**

- Mineral exploration and air drilling
- Geotechnical and overburden drilling
- Soil investigation and dry formation drilling
- Borehole cleaning and dust suppression in air systems

**Packaging**

20 kg drum | 32 drums per pallet



## THINNER (THN)

Fluid Loss Control  
Polymer

**Type** : Liquid Thinning Agent

**Function** Reduces viscosity and improves fluid flow in drilling systems

### Product Description

Thinner (THN) is a liquid rheology modifier formulated to reduce viscosity and gel strength in bentonite and polymer-based drilling fluids.

It helps maintain optimal mud flow properties, prevents flocculation, and improves the removal of drilled cuttings, especially in over-treated or high-solids systems.

Thinner is highly effective for reconditioning aged muds and restoring desired flow characteristics without affecting borehole stability.

### Key Benefits

- Reduces excessive viscosity and gel strength
- Restores fluid circulation and improves mud flow
- Prevents flocculation in high-solids systems
- Easy to mix and compatible with all water-based fluids
- Enhances drilling efficiency and pump performance

### Recommended Use

- Add 0.2–1.0 litres per 1000 litres of active fluid, depending on desired thinning effect
- Introduce gradually under full circulation for uniform disper-

### Typical Applications

- Bentonite and polymer mud systems
- Reconditioning over-treated or high-viscosity muds
- Geotechnical, exploration, and HDD drilling operations
- Rheology control during long-duration drilling projects

### Packaging

20 kg drum | 32 drums per pallet



## BENTONITE PELLET

Sealing Material for  
Borehole and Casing  
Annulus

**Type** : Compressed Sodium Bentonite Pellet

**Function** Expands on hydration to seal boreholes and prevent water migration

### Product Description

Bentonite Pellet is a high-swelling sodium bentonite sealing material used to seal boreholes, casing annuli, and monitoring wells after drilling completion.

The pellets expand when hydrated, forming a dense, low-permeability barrier that prevents vertical water migration and cross-contamination between aquifers.

Bentonite Pellets are ideal for mineral exploration, environmental, and geotechnical drilling where a reliable and long-term seal is required.

### Key Benefits

- Expands on hydration to form an impermeable seal
- Prevents water migration and cross-contamination between formations
- Simple, clean application with no mixing required
- Provides long-term chemical and physical stability
- Suitable for both fresh and brackish water environments

### Recommended Use

- Pour or tremie the pellets directly into the borehole or annulus
- Allow sufficient hydration time for full swelling and sealing
- Can be layered with sand or gravel for controlled sealing depth

### Typical Applications

- Sealing of boreholes, piezometers, and monitoring wells
- Annular sealing around casing installations
- Abandonment of exploration or test holes
- Environmental and hydrogeological sealing works

### Packaging

20 kg drum | 32 drums per pallet

DESCRIPTION	AMC	MUD LOGIC	BAROID	CETCO
<b>API grade bentonite</b>	AUS-BEN	GEL 100	AQUA GEL	PREMIUM GEL
<b>Bentonite</b>	AUS-GEL	GEL EXTRA	QUIK-GEL	SUPER-GEL X
High yield bentonite with dry polymer additive	AUSGEL EXTA	GEL ULTRA	QUIK-GEL GOLD	HYDRAUL-EZ
High yield & salt resistant bentonite	VISGEL SW	SALT GEL	TUNNEL-GEL SW	
<b>Liquid Polymer</b>	LIQUID POL	LIQUI MUD	QUIK MUD	INSTA-VISPLUS
<b>Powder Polymer</b>	CR650	CRP	EZ-MUD DP	INSTA-VIS DRY REL-PAC
Premium grade viscosifier	EZEE-TROL	TROL	QUIK-TROL GOLD PAC	
Bored piling & D-wall works powder polymer		DFA FVP		
<b>Powder Biopolymer</b>	XAN BORE	XAN VIS	NO SAG	SUSPENTIT
Premium solids suspension enhancer	AMC COPPER COMPOUND	MC COPPER COMPOUND	MC COPPER COMPOUND	
Heavy duty multi-function anti-seize grease	ROD GREASE XTRA TACKY	DD ROD GREASE XTA	IDP-214 ROD GREASE	
<b>Lubricants</b>	EP BIT LUBE	PRESSURE LUBE	TR-10	X-TORQUE
Extreme pressure lubricant	SUPERFOAM	MAX FOAM	QUIK-FOAM	VERSAFOAM PLUS
<b>Foaming Agent</b>	AUSPLUG	LC STOP	DIAMOND SEAL	MARCO-FILL
High yielding, biodegradable, liquid foaming agent	LIQUI-SPERSE	LIQUID SPERSE	AQUA-CLEAR PFD	SUPER THIN
Soluble & absorbent polymer (LCM) Material				
<b>Liquid Thinner</b>				
Polymeric thinning & deflocculating agent				

**CX BEN****CX GEL**

**SUPER GEL****ANTI-SALT GEL**

**SUPER POLY****CHP**

**CX TROL****FOUNDATION POLYMER (FP)**

**POLY XCD****COPPER THREAD GREASE**

**ROD GREASE****DRILL LUBE**

**FOAM PLUS****PLUG**

**THN**

**STETON MACHINERY (M) SDN BHD**

**AUTHORISED DISTRIBUTOR OF SINOMUD DRILLING FLUIDS**  
(MALAYSIA & SINGAPORE)

At Steton Machinery (M) Sdn. Bhd., every drilling fluid and additive is professionally packed and palletised to ensure clean handling, efficient logistics, and safe arrival at site. All packaging follows strict export and storage standards, designed for forklift access, stack stability, and maximum moisture protection. From small-bag pallets to 1- ton bulk packs, every delivery reflects our commitment to quality, consistency, and readiness for immediate use.

**BAGGED PRODUCTS**

CATEGORY	DETAILS
Applicable Products	CX Ben, CX Gel, Super Gel, Foundation Polymer
Packaging Type	25 kg or 40 kg multi-wall paper bags
Moisture Protection	Sealed bags for moisture resistance and long-term storage
.....	.....
Transport Protection	Pallets film-wrapped and stretch-sealed
Labelling	Product name, batch number, and weight clearly labelled
Handling Advantage	Compact, uniform, and ready for truck or container shipment



25kg / Bag

25 KG PAPER BAGS STACKED ON WRAPPED PALLETS | CLEAN, CONSISTENT, AND READY FOR DELIVERY.

**DRUMMED PRODUCTS**

CATEGORY	DETAILS
Applicable Products	Super Poly, CX Trol, Poly XCD, CHP, Rod Grease, Copper Thread Grease, Plug, Foam, Thinner, Bentonite Pellet
.....	.....
Closure System	Tamper-proof closure caps
Pallet Configuration	32 – 48 drums per pallet
Transport Protection	Stretch-wrapped pallets for stability
Structural Strength	High durability for stacking and container transport
Compliance	Meets international pallet and export standards

HDPE DRUMS ARRANGED ON EXPORT-GRADE PALLETS | SEALED, STABLE, AND TRANSPORT-READY.



15kg / Drum



25kg / Drum



55gal / Drum

**JUMBO BAG PACKAGING**



1ton / Jumbo Bag

CATEGORY	DETAILS
Applicable Products	CX Ben, CX Gel, Super Gel (bulk bentonite orders)
Material	Woven polypropylene with inner moisture liner
Handling Method	Lifting loops for forklift or crane handling
Operational Benefit	Efficient and dust-free batching solution
Best Use	Bulk deliveries, long-term storage, and export shipments

1-TON JUMBO BAG PACKAGING | HEAVY-DUTY, MOISTURE-LINED, AND CRANE-READY.

**DISTRIBUTION & READINESS**

CAPABILITY	DETAILS
Stock Availability	Ready stock maintained for drilling projects and resupply
Dispatch Process	Products palletised, labelled, and secured before shipment
Logistics Network	Reliable delivery via truck, container, or bulk freight
Operational Goal	Fast turnaround from warehouse to project site

PALLETISED PRODUCTS PREPARED FOR LOADING | CLEANLY PACKED, LABELLED, AND READY FOR DELIVERY.

Every delivery reflects our commitment to reliability, protection, and readiness – from packaging line to project site. Flexible logistics arrangements can be managed by either party, while our pricing remains competitive and value-driven without compromising product quality.



STETON MACHINERY

# COMPREHENSIVE HDD ECOSYSTEM

At Steton Machinery, we take pride in offering **complete HDD solutions under one roof**, providing clients with seamless integration between machinery, tooling, drilling fluids, and support services.

## HORIZONTAL DIRECTIONAL DRILLING (HDD) MACHINES

We are the authorised distributor of **STETON HDD machines**, globally recognised for their performance, durability, and ease of maintenance. Our product ranges from compact rigs for urban utility works to high-capacity models designed for major pipeline and infrastructure installations.

### PRODUCT HIGHLIGHTS

- Pullback capacity from 6 kN to over 1300 kN
- High-torque, hydraulic drive systems for stable drilling
- Compact footprint for urban jobs, robust build for demanding terrain
- Real-time monitoring and advance control drilling interfaces

*From telecom works to power cable installations, major utility pipelines, and long-distance subsea HDD crossings, STETON rigs deliver the performance and reliability your project demands.*

## DRILLING FLUIDS & ADDITIVES

As the authorised distributor of **SINOMUD**, we provide drilling fluids designed for mineral exploration, geotechnical works, HDD, water well drilling, and tunnelling. Our range covers bentonite, polymers, lubricants, and specialty additives suited for soft soils, mixed ground, and challenging formations.

### KEY PRODUCTS

- Standard and high yield bentonite
- Polymer viscosifiers and fluid loss additives
- Rod grease, copper thread compounds and lubricants
- Foaming agents, LCM, and specialty additives

*For challenging HDD crossings, mineral exploration, geotechnical investigations, or bored piling works, SINO MUD fluids deliver consistent performance, clean returns, and efficient cuttings transport across every formation.*

## OUR STRATEGIC BRANDS



### STETON HDD MACHINES

**Nanjing Steton Engineering Machinery Co.,Ltd** is a globally established HDD rig manufacturer offering a complete range from compact urban units to powerful maxi rigs for long-distance crossings. Known for their robust build, versatile performance, and futuristic design, STETON rigs combine power with operator-focused control and comfort. With easy maintenance, intelligent hydraulics, and support from a well-established factory, STETON rigs deliver reliability, efficiency, and long-term value across challenging HDD projects.

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### SINOMUD DRILLING FLUIDS

SINOMUD is a China-based manufacturer and global supplier of drilling fluids and drilling chemical solutions. The company specializes in high-performance bentonite, polymers, lubricants, and mud additives used in horizontal directional drilling (HDD), mining exploration, water well drilling, geothermal, foundation, and oil & gas projects. Sinomud is known for providing cost-effective, reliable, and performance-driven drilling fluid systems that enhance borehole stability and overall drilling efficiency.

Sinomud is a global supplier of drilling fluids and mud additives, delivering reliable and cost-effective solutions for HDD, mining, water well, and oil & gas drilling projects.



# STETON MACHINERY (M) SDN. BHD.

**Reliable Products. Proven Performance. Ready When You Are.**

Your Trusted Local Partner for Drilling Fluids, Mineral Exploration, and Geotechnical Solutions



## CUSTOMER SUPPORT & TECHNICAL ASSISTANCE

Our team is committed to supporting drilling contractors, exploration companies, and engineering projects with reliable products and responsive service.

### OUR SUPPORTS

- Product selection and drilling fluid formulation guidance
- Mixing procedures and application support
- Delivery coordination and logistics planning
- Technical consultation for drilling and coring operations
- Reliable after-sales support and project coordination

**Local stock availability | Fast delivery | Professional technical support**

### GET IN TOUCH

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## YOUR COMPLETE HDD PARTNER

· MACHINES · FLUIDS · TOOLING · ENGINEERING · SERVICE ·

### OUR PRODUCTS & SERVICES

#### HDD MACHINERY & SYSTEMS

Horizontal Directional Drilling (HDD) Rigs  
Compact Urban Utility HDD Machines  
Mid-Large Pipeline HDD Machines  
Mud Pumps & Mixing Units  
Powerpacks & Hydraulic Systems

#### DOWNHOLE TOOLS & ACCESSORIES

Drill Bits, Hole Openers, Barrel Reamers  
Swivels & Pulling Heads  
HDD Motors & Stabilizers  
Protection Components & Wear Parts  
Sub-Assemblies & Tooling Kits

#### DRILLING FLUIDS & ADDITIVES

Premium Bentonite & Super Gels  
Polymers & Biopolymers  
Lubricants & Drag Reduction Agents  
Foaming Agents & LCM Materials  
Mud Testing & Fluid Engineering Support

#### DRILL PIPES & CONNECTIONS

High-Strength HDD Drill Pipes  
API-Standard Drill Rods  
Tool Joints & Rod Adapters  
Rod Racks & Handling Equipment  
Breakout & Make-up Tools

#### LOCATING & GUIDANCE TECHNOLOGY

HDD Locating Systems  
Gyroscope Navigation Systems  
Tracking Beacons / Transmitters  
Electronic Receivers & Sensors  
Bore Path Design & Software Tools

#### ENGINEERING, SERVICE & SUPPORT

Custom HDD Engineering Solutions  
Bore Planning & Mud Programme Design  
Maintenance & Genuine Spare Parts Supply  
Operator Training & Technical Assistance  
Emergency Response & Field Troubleshooting



**STETON MACHINERY (M) SDN. BHD.**  
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