

unikem

Drilling fluid additives

ENGINEERED FOR RELIABILITY
DESIGNED FOR PERFORMANCE

Engineered performance for demanding drilling environments. For more than three decades, UNIKEM has specialised in the development and production of advanced drilling fluid additives and complete mud systems for HDD, geothermal, mining, civil construction and Oil & Gas operations.

Our solutions are designed to enhance borehole stability, improve efficiency and minimise environmental impact - delivering measurable results in the field.

At UNIKEM, we do not simply supply products. We provide expertise, reliability and long-term technical support.

Your drilling performance is our commitment.

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ADVANCED DRILLING FLUID SOLUTIONS

High-performance additives and engineered mud systems for:


HORIZONTAL DIRECTIONAL DRILLING (HDD) • MICROTUNNELING •
GEOTHERMAL DRILLING • MINING DRILLING • WATER WELL DRILLING
CIVIL CONSTRUCTION • COIL TUBING

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COMPLETE RANGE OF MUD ADDITIVES

WATER TREATMENT	SODA ASH	Improves water quality by increasing pH and precipitating soluble calcium. Enhances the performance and consistency of bentonite- and polymer-based drilling fluids from the initial mixing stage.
	NOCHLOR	Neutralises chlorine present in mains water, protecting polymers from degradation and ensuring optimal mud performance.
VISCOSITY CONTROL	 FLOWVIS DRY	Biodegradable high-performance polymer delivering excellent low shear rate viscosity (LSRV). Provides superior cuttings suspension, improved hole cleaning, and enhanced borehole stability.
	KEMTHIN	Liquid thinning agent designed to reduce viscosity and gel strength. Promotes deflocculation and effective solids dispersion for smoother fluid performance.
FILTRATION CONTROL	 FLOWPAC LV	High-quality polyanionic cellulose (PAC) for effective fluid loss control in permeable formations. Rapidly coats active clays, preventing swelling while improving borehole stability and cuttings removal.
	 STARFLO	Carboxymethyl starch acting as both a filtration control agent and viscosifier. Enhances mud stability while reducing fluid invasion into the formation.
LUBRICATION	 TEKLUBE	Environmentally responsible lubricant based on vegetable oils. Reduces torque and friction, protects drilling equipment from wear, extends tool life, and improves overall drilling efficiency with minimal environmental impact.
DEFOAMERS	CUTFOAM	Highly effective liquid defoamer, easily dispersible and efficient at low concentrations. Minimises air entrainment, improving fluid stability and circulation system efficiency.
CLAY INHIBITORS	POLYMAX	Advanced polymer for stabilising unconsolidated formations. Functions as a clay inhibitor and encapsulating agent, while also providing excellent viscosity and lubrication properties.
	DDETERGENT	Specialised surfactant blend that reduces surface tension and inhibits clay hydration. Enhances cuttings separation and prevents bit balling, maintaining drilling efficiency.
	 CLAYBUSTER	Clay inhibitor that reduces water absorption in reactive formations, enabling smoother drilling and improved penetration rates.
WELLBORE CLEANING	WELLFLUSH	Synthetic fibre-based solution designed to clean boreholes effectively, improving debris removal and overall drilling performance.
LOST CIRCULATION MATERIALS (LCM) AND PLUGGING AGENTS	SOLUBRIDGE	Acid-soluble inorganic fibre engineered to combat lost circulation. Forms a bridging matrix to seal fractures and permeable zones while facilitating subsequent clean-up operations.
	POLYLOCK	Expanding polymer sealing agent that penetrates cracks and fractures of varying sizes. Provides exceptional sealing performance in fissured and porous formations, improving borehole integrity.
	 MIXPLUG	Carefully engineered blend of granular, fibrous and lamellar materials designed to control fluid losses without altering the rheological properties of the drilling fluid.
MUD SOLIDIFICATION	DRYMUD	Super Absorbent Polymer (SAP) in powder form. Rapidly absorbs free water, transforming drilling waste into a more solid, manageable residue that is easier to transport and dispose of.
	MAXBREAKER	Powerful oxidising agent designed to break down polymers, simplifying mud treatment and disposal processes.

DRILLING FLUID SYSTEMS - TYPES OF MUD

BIODEGRADABLE MUD SYSTEM	 BIOFLUID	Clay-free blend of biodegradable polymers specifically developed for horizontal drilling operations where the use of clay-based fluids is restricted or prohibited. Delivers performance while ensuring environmental compliance.
BENTONITE MUD SYSTEM	BENTOMAXX HDD	Premium Bentonite System. High-grade sodium bentonite enhanced with specialised polymers. Formulated to maintain borehole integrity and stability in demanding horizontal drilling applications.
	BENTOMAXX SW	Saltwater Bentonite System. Specifically designed for use in saline environments. Provides reliable viscosity and stability where conventional bentonite systems may underperform.
	BENTO	Natural Bentonite. High-quality untreated bentonite suitable for a wide range of standard drilling applications.
METAL OXIDE MUD (MMO) SYSTEM	MUDPLEX	Magnesium- and aluminium-based inorganic additive. When combined with untreated bentonite, forms a high-performance inorganic complex that enhances suspension quality, borehole stability and cleaning efficiency.
STIFF FOAM SYSTEM	DRILL FOAM	Biodegradable foaming agent designed for dust suppression and effective cuttings recovery. Particularly suitable for air hammer drilling applications.
WATER WELL DRILLING POLYMER	 GUARFLO	Natural guar gum-based viscosifier developed specifically for water well drilling. Provides excellent borehole wall stabilisation and represents an effective alternative to bentonite systems.



ON-SITE MUD ENGINEERING SUPPORT

Professional technical assistance directly at the job site to optimise fluid performance and resolve operational challenges.



INSTRUMENTATION

Complete range of equipment for measuring and monitoring drilling fluid parameters to ensure consistent performance and quality control.



MUD DEWATERING SOLUTIONS

Specialised machinery for reducing drilling waste into solid residues that are easier and more cost-effective to transport and dispose of.

OUR CLIENTS

