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← → united-petrol.com/drilling-mud/?srsltid=AU7gw4UN1RXqsgLvRF_qE8GYST1CyEaGLUZ-SMFEIBCU4K2uyuvKjx2a

Air & Gas-Based Drilling (Pneumatic Systems)

In some cases, instead of liquid mud, air or gas is used as the drilling medium.

This method is highly efficient in specific geological conditions.

Typical Components:

- Air or gas
- Foam agents
- Mist additives

Applications:

- Hard rock drilling
- Dry formations
- High penetration rate operations

Key Additives in Drilling Mud and Their Roles

A drilling mud system is not just one material — it's a carefully engineered combination of additives, each serving a specific purpose.

Viscosifiers

- Bentonite**
Used to increase viscosity and carry drill cuttings to the surface.

Weighting Agents

- Barite**
Controls hydrostatic pressure and prevents blowouts.

Fluid Loss Control Additives

- PAC / CMC polymers**
Reduce fluid loss into permeable formations and protect the wellbore.

pH Control Agents

- Caustic Soda**
Maintain alkalinity and improve chemical stability.

Lubricants

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Road Deicing and Winter Maintenance

Calcium Chloride is widely used by municipalities and highway authorities for ice melting and snow control.

What makes it superior to traditional sodium chloride:

- Works effectively at lower temperatures (down to approximately -30°C depending on concentration)
- Releases heat during dissolution, accelerating ice melting
- Attracts atmospheric moisture, preventing refreezing

Because it penetrates ice layers faster, it reduces required application quantity compared to common rock salt.

For airports and infrastructure in cold climates, faster melting means improved safety and reduced downtime.

Concrete Acceleration and Construction Use

In cold weather concreting, Calcium Chloride acts as a set accelerator. It increases the rate of cement hydration, allowing faster early strength development.

This provides:

- Shorter curing time
- Earlier formwork removal
- Improved winter construction productivity

By accelerating hydration reactions, it reduces delays caused by low temperatures. However, controlled dosage is required to prevent reinforcement corrosion in structural concrete.

In non reinforced applications such as slabs and pavements, it significantly improves operational efficiency.

Technical Specifications

Parameter	74% Flakes	90% Granular
Chemical Formula	CaCl ₂	CaCl ₂
Purity	≥ 74%	≥ 90%
Appearance	White Flakes	White Granules
Moisture	≤ 20%	≤ 5%
Magnesium and Alkali Salts	≤ 5%	≤ 5%
Insoluble Matter	≤ 0.15%	≤ 0.10%
Sulfate	≤ 0.10%	≤ 0.10%
pH 10% Solution	7 to 11	7 to 11
Density	Approx 2.15 g/cm ³	Approx 2.15 g/cm ³
Packaging	25 kg Bag or Jumbo	25 kg Bag or Jumbo

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Product Overview

بخش ارتباط با ما شماره تلفن و واتساپ باشد همراه با لوکیشن شرکت همراه با دکمه وصل شدن مستقیم در واتساپ

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