

IMDEX Drilling Optimisation

xFORM™



A new generation of
multifunctional drilling fluids
helping you drill to spec,
on time, every time.

IMDEX™

A leading IMDEX brand



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Drilling optimisation

The need to improve productivity is critical as the cost of drilling increases due to higher operational standards, environmental restrictions and increased hole depths.

As specialists in drilling optimisation, Our vision is to ensure the execution of drilling programs to specification, on time, within budget and safely.

At IMDEX, we develop, manufacture, and supply a comprehensive range of quality drilling fluids and specialty products.

These products are complemented by our integrated range of equipment, designed to optimise your drilling operations and reduce environmental impact.

For over 40 years we have redefined the way drilling fluids, equipment, technology, and software are used, to ensure execution of drilling programs.

Our drilling optimisation solutions assist you to:

- ✕ Hit targets accurately
- ✕ Drill with precision and at speed
- ✕ Reduce down-time
- ✕ Maximise bit life
- ✕ Be safe and environmentally responsible
- ✕ Prevent hole loss and maximise core recovery
- ✕ Reduce site footprint
- ✕ Minimise site remediation and environmental management costs
- ✕ Deliver a cost-effective quality drilling program and have the data to back it up



Multifunctional fluids

IMDEX's multifunctional fluids range; xFORM offers a simplified approach to optimal mud-program performance without the guess work.

With our new line of multifunctional fluids you have the confidence that the ideal fluid for your drilling is always applied. It's a simple and efficient approach to optimal mud-program execution, where you get the best fluid to match the complexity of your drill site.

Our fluids enable you combinations of the following common functional needs:

- ✗ **Viscosity:** reduce common concerns including rod chatter
- ✗ **Hole cleaning:** clean cuttings away from the bit, lift cuttings to surface, suspend cutting in the drilling fluids
- ✗ **Fluid loss control:** keep fluid in the hole and reduce environmental impact
- ✗ **Lubrication:** reduce common concerns including torque and improving bit life
- ✗ **Encapsulation:** improve core recovery



xFORM™

AMC Drilling Optimisation Fluids | Powder Range

POWDER	Rheology Modifiers		Fluid Loss	Lubrication	Formation stabilisation
GRADE	Viscosity	Hole Cleaning	Filtrate Loss	Lubrication	Encapsulation
xFORM D PRO	●	● ● ●	● ●	● ● ●	● ●
xFORM D+	●	● ●	● ●		
xFORM D	● ●	●	●		

AMC Drilling Optimisation Fluids | Liquid Range

LIQUID	Rheology Modifiers		Fluid Loss	Lubrication	Formation stabilisation
GRADE	Viscosity	Hole Cleaning	Filtrate Loss	Lubrication	Encapsulation
xFORM L PRO	●	● ● ●	● ●	● ● ●	● ●
xFORM L+	● ●	● ●		● ●	●
xFORM L	● ● ●	●			●

AMC Drilling Optimisation Fluids | Bentonite Range

BENTONITE	Rheology Modifiers		Fluid Loss	Lubrication	Formation stabilisation
GRADE	Viscosity	Hole Cleaning	Filtrate Loss	Lubrication	Encapsulation
xFORM PRO	●	● ● ●	● ● ●	● ● ●	
xFORM +	●	● ●	● ● ●		
xFORM	●	● ●	● ●		



Why choose multifunctional?

xFORM multifunctional fluids take the guess work out of onsite preparations and execution. You can trust that bringing the one fluid to site will deliver you the optimal mud-program.

- ✕ Simplify inventory management with a streamlined supply chain to support your next drill site.
- ✕ Reduce administrative paperwork with just one fluid to register for QHSE compliance and risk assessment.
- ✕ Trust in our lab developed and field-tested multifunctional formulas, backed by over 40 years of experience supporting drilling contractors to achieve optimal results.



Multifunctional fluids are vital to optimal drilling programs. Achieve better drilling outcomes when you use xFORM fluids.

Viscosity – The drilling fluids developed by IMDEX offer optimal viscosity, enabling stabilisation of the drill string centrally in the borehole. This reduces rod chatter and vibration, resulting in improved drilling efficiency and accuracy.

Hole cleaning – Effective hole cleaning is crucial for efficient drilling. IMDEX's drilling fluids have the ability to transport rock fragments (cuttings) from the drill hole.

Additionally, the right fluids can suspend drilled cuttings even when the drilling fluid is not in motion. This ensures the borehole remains clear, allowing for smoother drilling operations.

Fluid loss – Fractured and porous formations are prone to fluid loss, where drilling fluid leaks into the surrounding geology. IMDEX's drilling fluids are designed to minimise fluid loss. By preventing excessive fluid loss, we can maintain stability of the formation around the drill hole.

Lubrication – IMDEX's drilling fluids offer lubrication properties that reduce friction and wear between surfaces. By minimising friction and wear, drill torque is reduced, leading to increased efficiency and improved equipment life.

Formulation stabilisation – Drilling in poorly consolidated or water-sensitive geologies can cause structural degradation. IMDEX's drilling fluids incorporate formation stabilisers to preserve the structural integrity of the geology and its matrix during drilling. This helps minimise potential damage to the formation and ensures a more stable drilling environment.



Fluid selection made easy

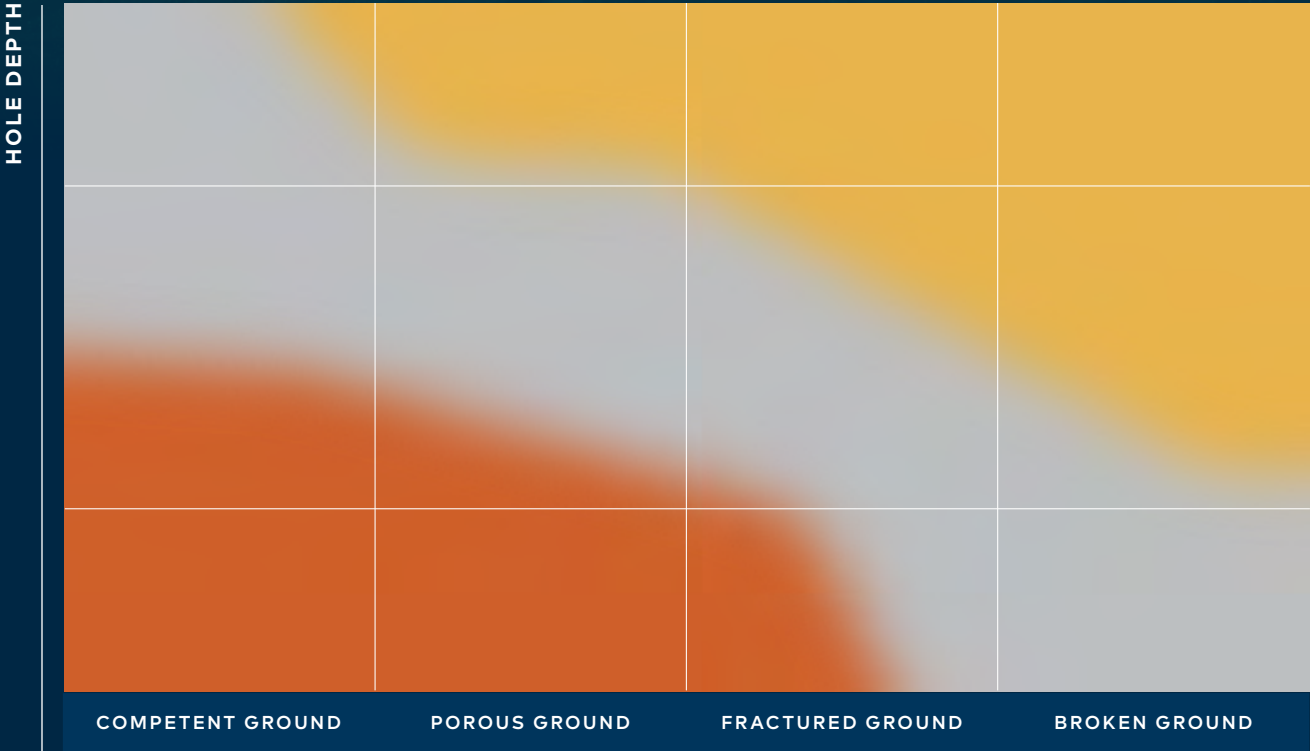
Geology and Hole Depth

PRODUCT
SELECTION TOOL

STANDARD

PREMIUM

HIGH PERFORMANCE

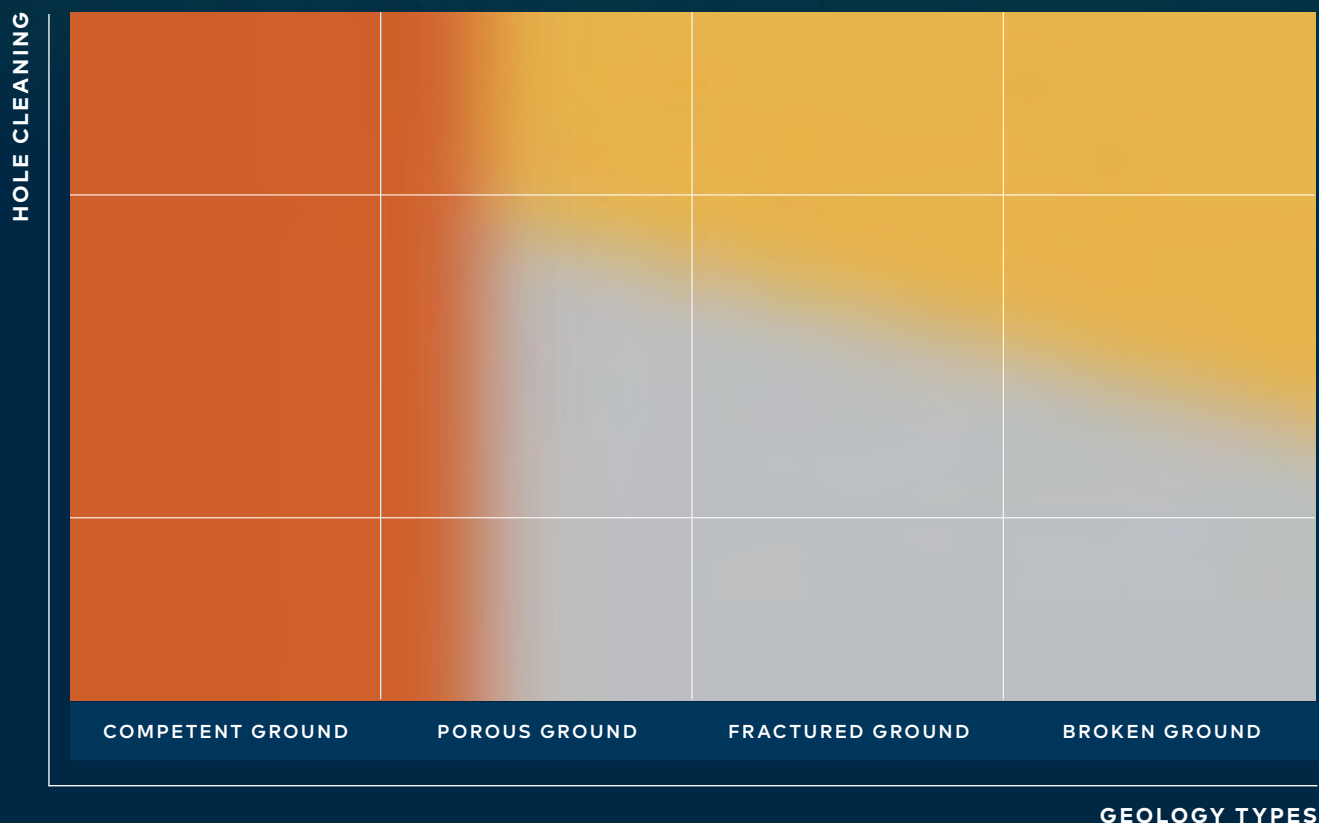


GEOLOGY TYPES

Effective hole cleaning and viscosity are crucial for efficient drilling, enabling stabilisation of the drill string. xFORM fluids ensure the borehole remains clear, allowing for smoother drilling operations with each run.

Geology and Hole Cleaning

PRODUCT SELECTION TOOL

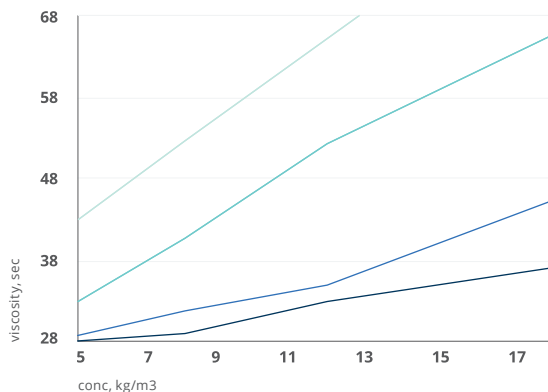


xFORM L PRO Liquid

xFORM™ L PRO

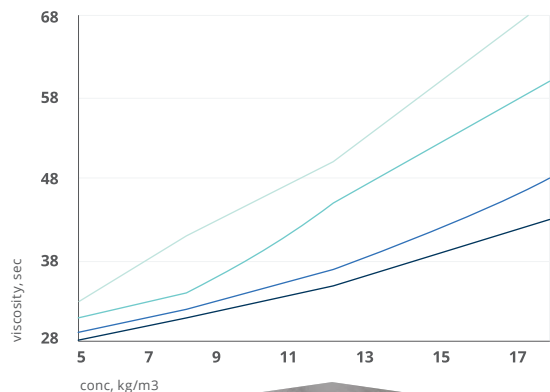
Chlorides

● in DI Water @
● in 1,000ppm [Cl] @
● in 10,000ppm [Cl] @
● in 100,000ppm [Cl] @



Hardness

● in 100ppm [Ca] @
● in 200ppm [Ca] @
● in 500ppm [Ca] @
● in 1,000ppm [Ca] @

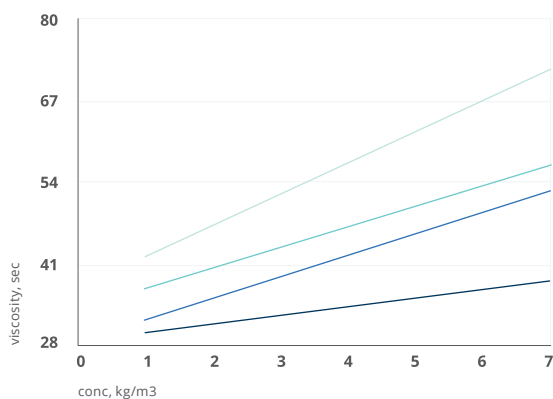


xFORM L+ Liquid

xFORM™ L+

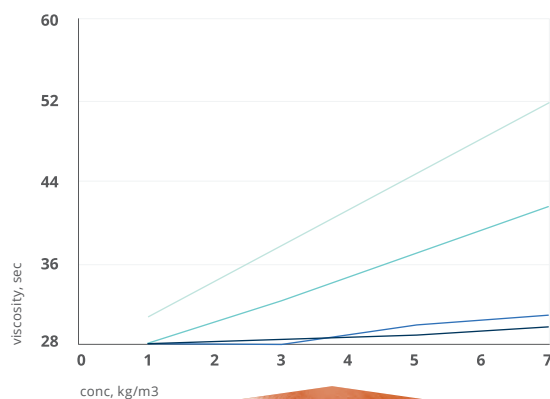
Chlorides

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● in 10,000ppm [Cl] @
● in 100,000ppm [Cl] @



Hardness

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● in 200ppm [Ca] @
● in 500ppm [Ca] @
● in 1,000ppm [Ca] @

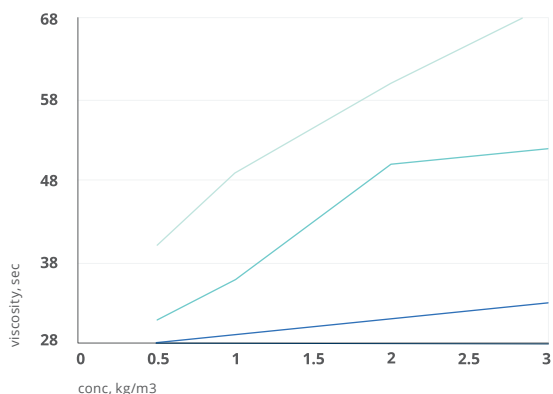


xFORM L Liquid

xFORM™ L

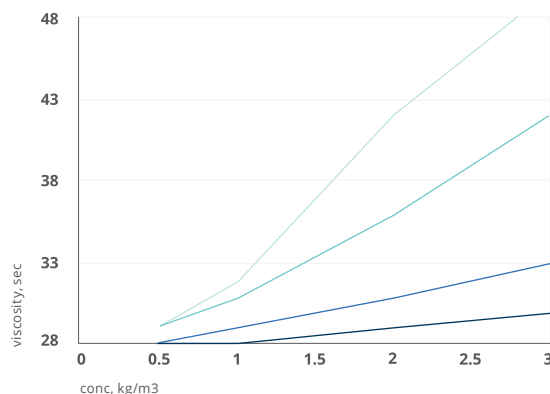
Chlorides

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● in 10,000ppm [Cl] @
● in 100,000ppm [Cl] @



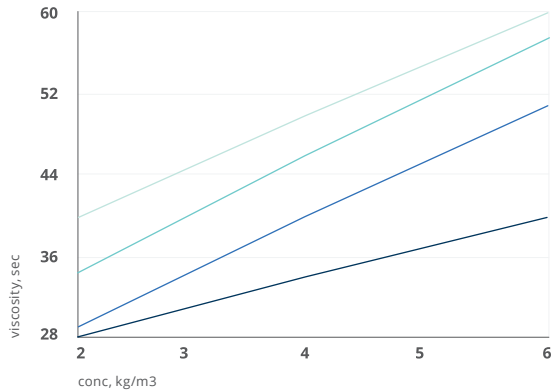
Hardness

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● in 1,000ppm [Ca] @

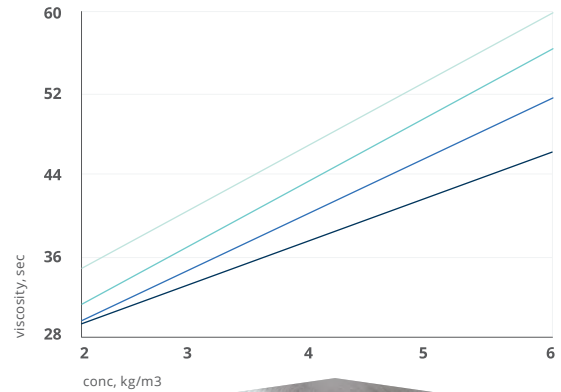


xFORM D PRO Powder**xFORM™ D PRO****Chlorides**

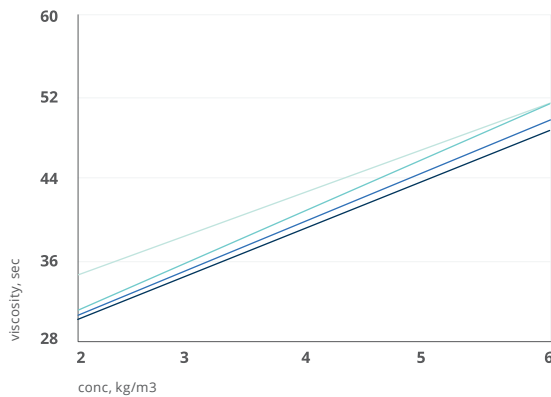
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- in 100,000ppm [Cl] @

**Hardness**

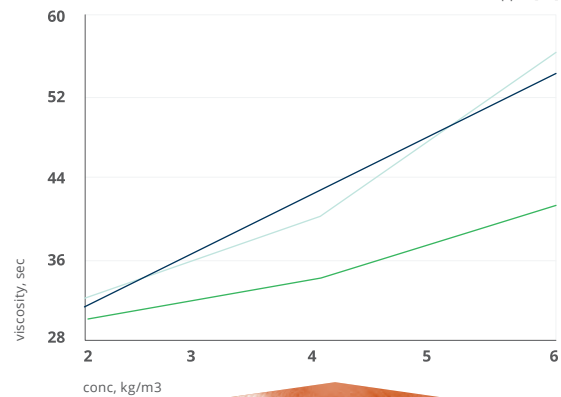
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- in 500ppm [Ca] @
- in 1,000ppm [Ca] @

**xFORM D+ Powder****xFORM™ D+****Chlorides**

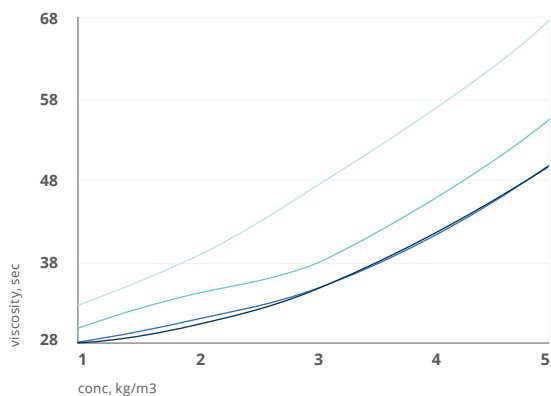
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**Hardness**

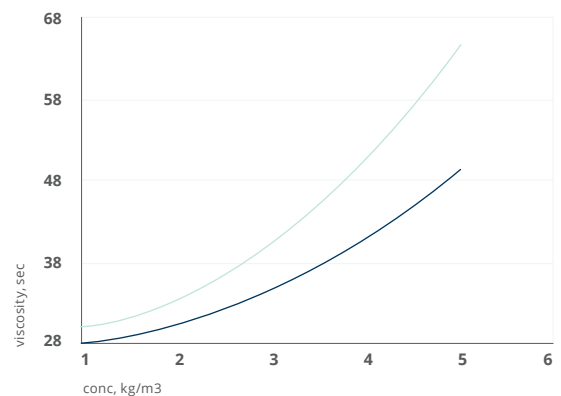
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- in 200ppm [Ca] @
- in 500ppm [Ca] @
- in 1,000ppm [Ca] @
- in 10,000 ppm [Ca] @

**xFORM D Powder****xFORM™ D****Chlorides**

- in DI Water @
- in 1,000ppm [Cl] @
- in 10,000ppm [Cl] @
- in 100,000ppm [Cl] @

**Hardness**

- in 100ppm [Ca] @
- in 200ppm [Ca] @
- in 500ppm [Ca] @
- in 1,000ppm [Ca] @





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