



enhanced
by Omya

Omyadrill

Stabilized and Protected
Wellbores



THINKING OF TOMORROW



About Omya

Omya is a leading global producer of industrial minerals – mainly fillers and pigments derived from calcium carbonate and dolomite – and a worldwide distributor of specialty chemicals.

Founded in 1884 in Switzerland, Omya has a global presence extending to more than 175 locations in over 50 countries with 8,000 employees.

The company provides a wealth of product solutions that contribute to its customers' competitiveness and productivity in multiple industries such as Construction, Printing & Writing, Technical Polymers, Packaging, Food, Personal & Home Care, Pharmaceuticals, Agriculture, Forestry, Water and Energy.

For the oil & gas industry, Omya has specifically developed a range of calcium carbonate products to meet the technical challenges encountered in drilling and well operations.

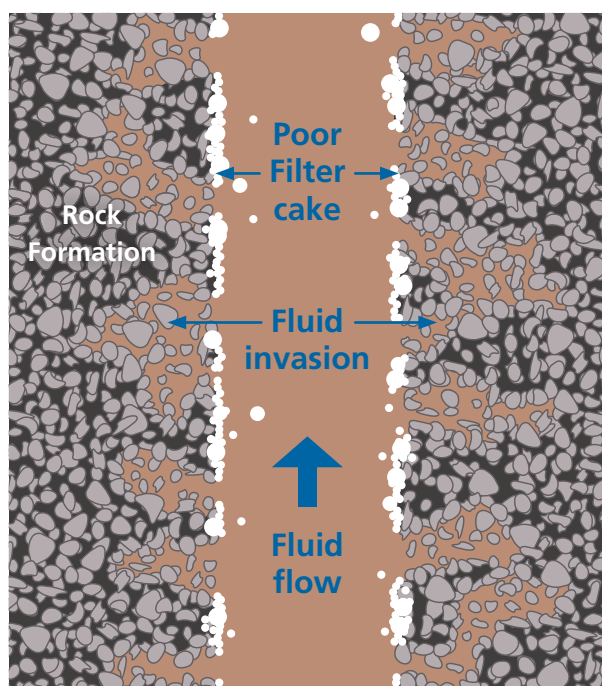
Omyadrill is a range of specially sized, high purity, marble-based calcium carbonate for use in drilling and completion fluid applications. Omyadrill can be used effectively as a bridging agent, a weighting agent, for loss circulation control and for wellbore stress management.

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Omyadrill as a Bridging Agent

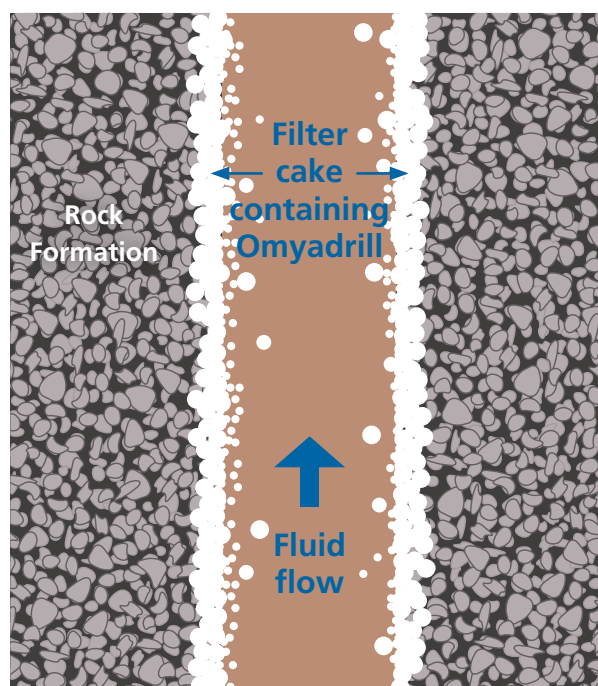
Bridging materials are commonly added to drilling fluids and to other fluids used in oil and gas well operations. The purpose of using bridging agents is to provide a bridge of solids over the pore throat or the fractures of the rock formation exposed during the drilling operation. This bridging effect provides a filter cake on the surface of the rock and helps to prevent the loss of drilling fluid or excess filtrate to the rock formation. Effective bridging with Omyadrill will help to protect the wellbore and minimize formation damage.

Ineffective bridging



Ineffective bridging results in poor filter cake that leads to invasion of fluid into the rock causing damage to the formation.

Effective bridging



Effective bridging with appropriately sized Omyadrill products helps to provide a good filter cake that can be easily removed, leaving an undamaged formation.

*High acid solubility,
low attrition, high purity*



Omyadrill as a Weighting Agent

Omyadrill can be used as a weighting agent to increase the density of reservoir drilling fluids and drill-in fluid systems. The high hardness characteristic of the Omyadrill range provides robust and resilient particles that will withstand degradation during the drilling operations. The inert nature of the Omyadrill product minimizes the effect on fluid properties and is compatible with other additives used in the fluid.

Omyadrill for Wellbore Stress Management

The specially designed particle sizes and high hardness of the marble-based Omyadrill product range allows it to be used for wellbore strengthening and fracture sealing applications, reducing the risk of problems during drilling operations such as differential sticking and loss circulation. Omyadrill is compatible for use with other additives and the wide scope of particle sizes available from the Omyadrill range will fulfil most fractures and wellbore stress management requirements.



Omyadrill for Loss Circulation Control

The uncontrolled loss of drilling fluid or 'mud' into the geological formation is referred to as loss circulation and can vary from minor seepage to severe losses which can lead to catastrophic consequences.

Losses can occur due to an inherently fractured, cavernous or highly permeable formation or due to a consequence of improper drilling practices. Omyadrill can be used alone or in conjunction with other materials either as a prevention or as a solution to loss circulation whilst drilling.



Product Range

Product	Median particle size (in μm)	
	min	max
Omyadrill 2	< 6	
Omyadrill 6	6	9
Omyadrill 20	20	30
Omyadrill 45	40	60
Omyadrill 125	125	175
Omyadrill 200	200	300
Omyadrill 350	350	450
Omyadrill 450	450	550
Omyadrill 650	600	700
Omyadrill 750	750	800
Omyadrill 900	800	1000
Omyadrill 1100	1100	1200
Omyadrill 1500	1400	1650
Omyadrill 1800	1700	2400
Omyadrill 2400	2300	2500

In some plant locations, only part of the Omyadrill product range may be available.

The Omyadrill product range is produced from marble based Omya Calcium Carbonate of high purity and high acid solubility (>97%). Omyadrill is available in many particle sizes to accommodate the requirements and challenges of the your drilling and completion operations. Typical packaging available will be sacks, big bags and bulk depending on plant location and delivery destination.

For applications in

- *Drilling fluids*
- *Reservoir drilling fluids*
- *Drill-In fluids*
- *Workover fluids*
- *Packer fluids*
- *Completion fluids*
- *Cementing fluids*

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**THIS PAPER CONTAINS
OMYA PIGMENTS**