

# AMERICAN GILSONITE

Surfactant-coated Gilsonite G-Bond improves mixability and increases cement performance

## Gilsonite G-Bond mixes faster and easier at higher concentrations

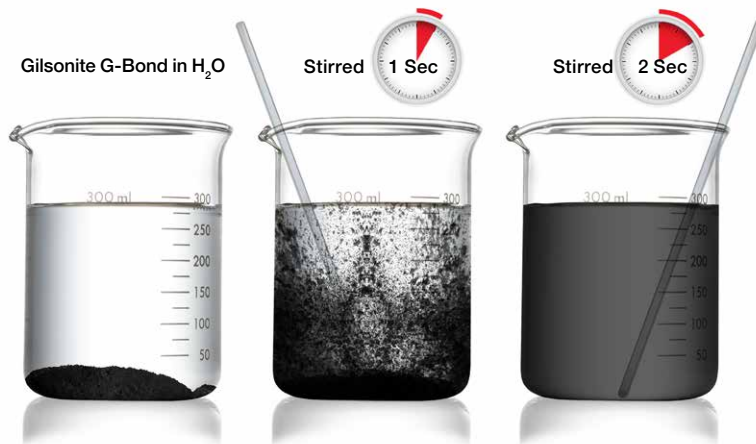
Gilsonite® is renowned as an effective, multipurpose cementing additive. Surfactant-coated Gilsonite G-Bond delivers even more performance in formulations with higher concentrations.

**Now you can further improve the physical and chemical properties of your slurry and set cement by using higher concentrations of Gilsonite.**

- > Enhance cement bonding
- > Prevent sustained casing pressure
- > Improve zonal isolation
- > Eliminate need for blenders or batch mixers onsite
- > Prevent pump cavitation
- > Eliminate need for wetting and defoaming agents

## Mixes easily without foaming – saves time, space and money

Gilsonite G-Bond is traditional Cementing Grade Gilsonite with a surfactant coating. It is free-flowing and easily disperses in water for rapid wellsite mixing – even at high concentrations. Its unique characteristics eliminate the time and expense of adding wetting agents and defoamers, as well as the time, space and cost of using a batch mixer.



*In magnetic stir tests, full dispersal of production grade Gilsonite G-Bond was achieved in an average of 1.5 seconds.*

## Instantly enhance cement properties without changing your formulation

With its superior hydrophilic characteristics, Gilsonite G-Bond readily mixes at concentrations approaching 30% or even 40% without requiring any additional changes to the slurry formulation. It is ultra-lightweight, highly dispersible and can be mixed on the fly without requiring any blenders or batch mixers.



Product quality is assured by our stringent testing process that meets the standards of cementing industry leaders.

# Gilsonite G-Bond assures zonal isolation, reduces environmental risk, improves ultimate recovery and reduces total cost of ownership for the life of a well.

## Cement slurry benefits

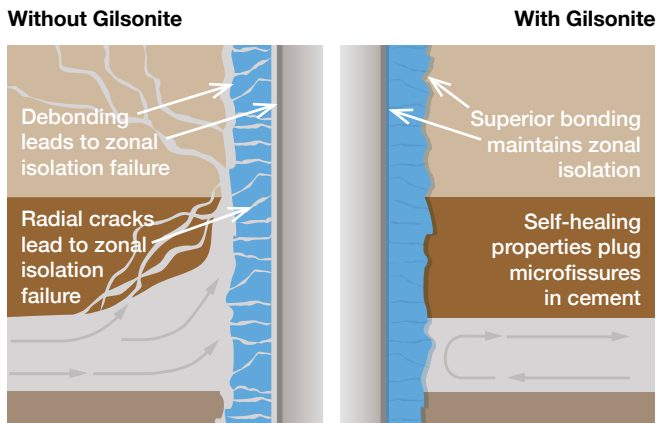
- > Increases yield
- > Reduces slurry weight
- > Controls free water
- > Lowers slurry water ratio
- > Promotes favorable rheologies resulting in lower ECDs
- > Prevents lost circulation
- > Scours wellbore/enhances mud removal

## Set cement benefits

- > Supports compressive strength development
- > Increases flexibility
- > Reduces cracking
- > Heals microfissures
- > Reduces permeability
- > Strengthens bond to the formation and the casing
- > Reduces environmental risk

## Self-healing properties help maintain zonal isolation

Gilsonite is flexible, deformable, swellable, impermeable and non-porous. These characteristics give Gilsonite self-healing properties that can plug induced microfissures in the cement sheath.



When microfissures develop, Gilsonite expands to seal the cracks.

## Fracture Closure (13.4 ppg Slurries)



## Gilsonite eliminates the problems of free water

By controlling free water, Gilsonite helps stabilize slurry and eliminates the need for – and cost of – additional free-water-control agents. It also improves zonal isolation by preventing water channeling on the upper side of the wellbore.

## Free Water Comparison (12.5 ppg at 140°F/100°F)



Similar results were obtained with different temperatures and slurry densities.

## Proven in more than 60 years of oilfield performance

The effectiveness of Gilsonite as a versatile additive has been documented in approximately 50 SPE and other peer-reviewed presentations.

Gilsonite is our trademarked brand name for uitaite: There's only one source of Gilsonite.

**Proven under pressure.®**

