

# FLC<sup>®</sup> FINE

## Wellbore Stabilizer

## Product Specifications



### DESCRIPTION

FLC<sup>®</sup> FINE wellbore stabilizer is a proprietary highly processed and balanced blend of cellulosic (modified polymers and solids) and other materials that generate a fast, effective seal to minimize fluid and pressure invasion. The low permeability seal created by FLC FINE limits transmission of destabilizing wellbore pressure into the formation. This barrier, or 'shield' minimizes formation damage and prevents fractures from propagating.

### ADVANTAGE

Operators drill safely with mud densities greater than the fracture initiation pressure

Protects mechanically weak and interbedded shales to prevent sloughing, washouts, hold closures or collapse

Eliminates differential sticking in high permeability formations

Optimizes production by minimizing invasion in depleted formations

Does not shear degrade and has a broad particle size distribution

High temperature stability (over 400°F)

### APPLICATION

Seals fractures up to 150  $\mu\text{m}$  while the smaller particle size improves solids control, reducing maintenance costs without compromising performance.

Optimizes wellbore stability in a variety of drilling conditions including: deepwater applications, depleted or poorly consolidated formations, interbedded formations, mechanically weak formations

Equally effective in water-, oil- or synthetic-based drilling fluid systems

### RESERVOIR PERFORMANCE

Suitable for use in all sections of the well including the reservoir

Demonstrated to be non-damaging in independent 3rd party testing:

- Low permeability Middle Eastern Chalk, WBM 98% return perm
- Medium permeability Latin American Sand, WBM 98% return perm
- Medium permeability Norwegian Sand, Micromax OBM 90% return perm

### ENVIRONMENTAL ADVANTAGE

Environmentally compliant for use in all areas

PLONOR listed for North Sea use, HMCS Category P, OCNS Group E

Passes the North America 96-hr LC50 bioassay mysid shrimp

### TREATMENT RECOMMENDATIONS

Effective at concentrations as low as 4-6 ppb

Designed for use in the circulating fluid system

Concentration can be monitored by Impact's proprietary Sand Bed Tester

### PHYSICAL PROPERTIES

Appearance: Light tan, free-flowing powder

pH: 6-7 in fresh water

Specific gravity: 1.6-1.7 g/cm<sup>3</sup>

Does not contain Graphite, Asphalt, Gilsonite or other black powder based material

### HANDLING AND STORAGE

FLC FINE should be stored in a dry environment. Avoid excessive dust and inhalation. Use appropriate PPE and review the SDS before use.

### PACKAGING

FLC FINE is available in 25-lb, multi-walled bags – 48 sack per pallet