

Gel L.C. Seal

Gel L.C. Seal is composed of very fine cellulosic fibers and novel fibrous high purity calcium carbonate, specially processed to prevent seepage losses while drilling sand and fractured zones. It also imparts borehole stability. The particle sizes are so designed, that it helps in rapid formation of a strong filter cake. **Gel L.C. Seal** can be used in both water and oil based mud system. The special treatment of the fibers while manufacturing, imparts high wettability to **Gel L.C. Seal** in the oil based mud system without much affecting the rheology of the mud system. This product passes the 20/40 frac. Sand pack

Physical Properties	
Appearance	Off white free flowing powder
Bulk Density	0.20-0.25
Fineness	90-95 % passing 80 mesh
Temp. Stability	> 400°F

Features and Benefits

Gel L.C. Seal is produced by carefully selecting the right cellulosic source and fibrous calcium carbonate, which gives fibers of various sizes and shapes so that they can seal the hole wall to form an almost impermeable filter cake with the help of drill solids. This sealing effect is further increased as the cellulosic fibers swell by absorbing water or oil from the mud, thus giving further reduction of fluid loss of the mud system. **Gel L.C. Seal** with its unique nature of complete sealing the formation eliminates the migration of fines from well bore fluids.

Reversal of the pressure, as and when the well is brought on stream, blows the filter cake off easily due to the high pressure gradient generated because of very limited filtrate invasion. We also recommend acidization, the fibrous calcium carbonate present in the product would dissolve, and hence the compact filter cake produced would loosen out and would ensure complete removal of

the filter cake. This unique feature of the product ensures rapid clean up and does not damage the formation to maintain the productivity of the formation.

Treatment

Gel L.C. Seal is used at concentration of 5-9 lbs/bbl in the drilling mud. Due to losses over the shakers, a further treatment of 30-35 lbs to the circulating system to be added for every 150 feet of drilling.

Gel L.C. Seal is also recommended to run as sweep in a dosage of 20 -30 lbs/bbl.

Gel L.C. Seal is used in concentration of 10-14 lbs/bbl to control the losses of brine in the formation in the workover jobs. Use of **Gel L.C. Seal** in the workover jobs has to be in conjugation with viscosifier like XC polymer/ HEC, & fluid loss reducers like starch/PAC LV.

Safety Precautions

Gel L.C. Seal is non- toxic; no special safety requirements have to be observed. It is recommended to utilize normal precautions for employee protection while handling.

Packing

Gel L.C. Seal is packed in 20 Kgs HDPE Sacks with polyliner.