



# SLICK-SEAL™

## SIZED CELLULOSE FIBER LUBRICANT

### DESCRIPTION

SLICK-SEAL is a highly effective, non-polluting and non-toxic fibrous lubricant which provides excellent lubrication properties with the added benefit of seepage loss control. Its typical properties are as follows:

Description	Sized cellulose fibers with an oil-based lubricant preabsorbed on the fibers.
Appearance	Finely divided fibrous powder
Color	Light yellow to brown
Specific Gravity	Approx. 1.5
Bulk Density	12 lbs / cu. ft. (uncompacted) 25 lbs / cu. ft (compacted)

### APPLICATION

SLICK-SEAL is a non-polluting drilling fluid lubricant for use in water-based mud systems. It is based on a mineral oil lubricant that has been preabsorbed on micronized cellulose fibers. SLICK-SEAL is a specially developed product which allows the lubricant to be carried and concentrated in the wall cake as the fibers are filtered.

The fibers in SLICK-SEAL provide the system with the added benefit of seepage loss control in low pressure depleted sands. This is very important in these areas where seepage control and lubricity are required to avoid differential sticking.

In addition, SLICK-SEAL minimizes the need for free liquid lubricants to be used in the system.

### BENEFITS:

- Reduction of torque and drag in directional wells
- Reduction in swelling and sloughing of sensitive shales
- Effective in freeing stuck pipe when mixed with oil spotting fluids.
- Effective in minimizing differentially stuck pipe by providing seepage loss control and lubrication.

### RECOMMENDED TREATMENT

SLICK-SEAL is typically added at a loading range of 1 to 6 lbs./bbl for torque and drag problems. The well can be maintained with approximately 100 to 200 lbs./tour. If excessive torque and drag problems are encountered downhole, treat by slugging a pill of SLICK-SEAL downhole and circulating up the annulus slowly.

It is to be noted, however, that concentrations will vary with problem severity and hole condition.



## PACKAGING

SLICK-SEAL is packaged in either 40 lb. or 50 lb. multi-wall polyethylene bags. Alternative packaging is available upon request.

SLICK-SEAL is a Messina trademark

