

### DESCRIPTION

Cementing Spacer CSP-0500 is designed for separating cement slurries and water based drilling muds. It is also designed to be compatible with both fluids.

The main advantage of CSP-0500 is the very good fluid loss control at low and high temperatures. The filter cake which develops helps to greatly reduce the fluid leak off into formations where the mud cake has been mechanically removed by centralisers or scratchers.

### APPLICATION

Ideally, the spacer should be more dense and more viscous than the mud but lighter and less viscous than the cement slurry. The spacer can be displaced in laminar or turbulent flow depending on the temperature and pipe configuration. A minimum of 500 ft. of annular fill of spacer should normally be used ahead of the cement, and pipe movement should be attempted where possible to help achieve maximum mud removal.

To achieve the required density, barite is added as the weighting material. The standard method of application is to mix the spacer with fresh water at the rate of 18.5 lbs per bbl. of water or one 25 Kg sack per 3 bbls. of mix water (final density of 8.6 lbs/gal). Laboratory tests should be run with the available weighting agents. Concentrated salt water inhibits the hydration of the spacer, and poor properties may result. Seawater can be used although the hydration time is slightly longer and fluid loss tends to rise.

With oil based muds in particular, it is good practice to assess the compatibility of the mud, cement and spacer under down-hole conditions prior to running the cement job.

### PHYSICAL PROPERTIES

Appearance:	Off-white powder.
Specific Gravity:	2.71
Solubility in water:	partly soluble

### PACKAGING

Packaged in 25kg NET sacks. 40 sacks per pallet.

### CSP-0500

#### Typical data for standard mix using 18.5 lbs/bbl CSP-0500 in fresh water (giving 8.6 lbs/gal) plus barite to give final density

Depending on the temperatures expected downhole, the polymer (CSP-0500) concentration can be altered to achieve the desired rheology and fluid-loss control.

A hydration time of 20 minutes should be allowed while circulating CSP-0500 in the tank before adding any weighting material.

