



# Technical Data Sheet

## CLS

### *Product Description*

**CLS** or chrome lignosulfonate is an all purpose deflocculant and fluid loss control agent to aid in controlling rheology and provide temperature stability. CLS is most effective when pH is in the range of 9 - 11.

**Applications:** reduce fluid loss; control rheology; and stabilize properties at high temperatures and contaminants.

**Treatments:** Typical treatments range from 1 - 6 lb/bbl, but treatments as high as 1 - 12 lb/bbl are possible depending on mud system, and solids concentrations. CLS has a low pH, which require additions of caustic soda at a ratio of 1 sack caustic to 4 - 6 sx of CLS.

Daily maintenance treatment are required. Pilot testing is suggested to determine the actual treatment required to obtain the desired properties.

### KEY BENEFITS

- Reduce and control fluid rheology
- Controlling gel strengths
- Minimizes the potential for differential sticking.

#### Key Properties

|               |             |
|---------------|-------------|
| pH            | 2.8 - 4     |
| Color         | Black/Brown |
| Physical Form | Powder      |
| Sg            | 1.4         |
| Packaging     | 50 lb Sacks |