

Chrome Ligno Sulfonate (CLS)

Chrome Ligno Sulfonate is dark-brown colored powder, is special thinner used in drilling fluids. It has the character of anti-high temperature and anti-electrolytes, suitable to fresh water, salt water and saturated salt water mud.

Specifications:

Item	Result
Moisture %	8.5 max
Material insoluble %	2.5 max
Calcium Sulfate %	3.0 max
Total Cr %	3.6-4.2
Cr Complex %	75.0 min

Mud Performance:

Item		Fresh water drilling mud	Salt water drilling mud
Normal Temperature	Apparent Viscosity mPa.s	20 max	25 max
	Rate of reducing viscosity %	85 min	70 min
High Temperature	Apparent Viscosity mPa.s	30 max (150 ⁰)	45 max (150 ⁰)
	Rate of reducing viscosity %	65 min (150 ⁰)	60 min (150 ⁰)

1. Anti high temperature, the mud keeps stable and unchanged for 16 hours when temperature reaches 150⁰ -160⁰.
2. Anti electrolytes, it is suitable to every kind of mud.
3. In 2% salt water, the mud added with CLS performs better than FCLS.

Application:

CLS is used as thinner for drilling fluids, may be added into drilling fluids in powders or in water solution with a dosage 0.5-1.0 % (W/V).

Adjust the PH value in a range of 10-10.5

Packaging:

25 kg/ paper bag with PE bag inside.

Product Code: CCCLS001