

1. GENERAL INFORMATION

S-ES BIO XG is a Xanthan Gum used in drilling, completion, and work-over operations. S-ES BIO XG is used primarily as viscosifier and suspending agent.

2. APPLICATION

S-ES BIO XG can be used in fresh water, brackish water or saturated salt systems and it is unaffected by most contaminants.

Drilling:

S-ES BIO XG provides excellent hydraulics in makeup waters ranging from fresh water up to saturated salt water.

S-ES BIO XG is fast hydrating and is mainly used in low solid drilling fluids as a viscosifier. S-ES BIO XG contributes in improving the rate of penetration and preventing the settling of solids when the circulation is stopped.

Gravel Packing:

S-ES BIO XG, because of its high pseudoplasticity, carries efficiently a high gravel concentration and keeps it adequately in suspension. The shear thinning properties allow an efficient separation and release of the gravel at the screen.

Packer fluids:

Suspending characteristics associated with a good pumpability are properties that can be achieved by using S-ES BIO XG, keeping at the same time a low damaging potential.

S-ES BIO XG drilling fluids have been used up to 300°F (150°C).

Using S-ES BIO XG as primary viscosifier and suspending agent, bentonite concentration can be reduced, and high temperature gelation is minimized.

3. TREATMENT

S-ES BIO XG should be slowly added to the drilling fluid at a rate of about 10-20 min/sk. S-ES BIO XG is generally used at concentration of 1.5 - 4.0 kg/m³.

4. TYPICAL PROPERTIES

Appearance:	free flowing powder
Colour:	cream
Brookfield LVT viscosity (1% soln in 1% KCl soln):	700–2000 cP
pH (1% DW solution):	7 approx
Moisture content:	15% max
Particle size (pass through 20 mesh ASTM screen):	98% min

5. PACKAGING

25 kg multi wallpaper bags (internal PE), palletized, shrink wrapped (40 bags per pallet).