

INFORMATION

REDI-FLO-NLV

LOW VISCOSITY, LOW-CHARGE FILTRATION CONTROL POLYMER

DESCRIPTION

REDI-FLO-NLV is a compound of low to medium molecular weight etherified polysaccharides with a low net ionic charge. The product is a free-flowing powder, white to beige in color.

APPLICATION

REDI-FLO-NLV is useful as a non-viscosifying filtration control agent in a wide variety of mud systems, but has been specially designed for advantageous application in Messina REDI-COAT fluids. REDI-FLO-NLV complements REDI-COAT polymer by providing efficient control of water loss without interfering with the encapsulating activity of REDI-COAT.

REDI-FLO-NLV's low charge density means that it does not compete with REDI-COAT for preferential adsorption onto exposed shales and encapsulation of drilled cuttings. In this regard, REDI-FLO-NLV is superior to cellulose and PAC polymers because they are highly anionic and can interfere with the encapsulating activity of REDI-COAT.

The film formed by cellulosic polymers is inferior in bond strength and water repellency to a REDI-COAT film, so it is important to assure that filming and encapsulation are accomplished by REDI-COAT and not by cellulosic polymers. This is best achieved by excluding cellulose from the system and using REDI-FLO-NLV.

The low-charge character of REDI-FLO-NLV also reduces consumption of filtration control additive by virtue of the fact that the product is not rapidly removed from the system via reaction with drilled solids. This feature enhances economy of use when compared to other filtration control polymers.

REDI-FLO-NLV is essentially non-viscosifying, making it very attractive in weighted or high solids mud systems.

RECOMMENDED TREATMENT

Typical dosage range is 1 to 4 ppb (2.9 to 14.3 kg/kl). The product should be mixed through a hopper with good shear at a rate of not less than 10 minutes per sack.

ADVANTAGES

- Non-viscosifying.
- Non-competitive with encapsulating polymers.
- Useful up to BHST of 300° F/149° C.
- Non-fermenting.
- Tolerates salt to saturation and high levels of calcium/magnesium.
- Functional over a wide range of pH.

PACKAGING

Multi-layer moisture-resistant bags of 50 lb or 25 kg net weight.

REDI-FLO-NLV is a Messina trademark