



Product Information

Millzan

GENERAL DESCRIPTION

Millzan polymer is a dispersible, high molecular weight xanthan biopolymer used for rheology control in water-based systems.

Millzan is used primarily as a viscosifier in fresh water, sea water or saline muds, from low solids to highly weighted systems. It will enable optimum rheology control through superior low shear rate viscosity which is highly shear thinning.

FEATURES AND BENEFITS

Millzan is easily mixed to provide rheological properties for improved hydraulics. This includes minimum friction pressures for additional hydraulic horsepower at the bit for maximum ROP's. The same rheology promotes laminar flow in the annulus for increased borehole stability with maximum solids transport capacity.

RECOMMENDED TREATMENT

The amount of Millzan required will depend upon the effective viscosity or friction pressure reduction needed. When used as a primary viscosifier in a low colloid system 3-6kg/m³ may be required. Higher concentrations up to 12kg/m³ may be used for extremely high transport requirements.

Millzan disperses in water with moderate agitation. Continued mixing for a short period provides a smooth viscous fluid. Millzan should be added slowly to the active system to avoid lumping or fish-eyes which may occur if the polymer is not properly dispersed.

HANDLING

Millzan is not a controlled product using the WHMIS classification. Refer to MSDS information for specific precautions and handling.

Millzan will function in fluid temperatures up to 138°C. The addition of 3% salt and an oxygen scavenger will improve temperature stability in fluids from 94°C to 138°C. Millzan is slightly anionic and therefore special mixing procedures must be used when mixed with cationic materials. Trivalent ions such as chromium may cause biopolymer precipitation and loss of viscosity.

AVAILABILITY

Millzan is available in 25kg sacks (with waterproofing) from HiTech Fluid Systems Ltd.