PRODUCT INFORMATION

PAC (Polyanionic Cellulose)

AM2F energy

Polyanionic Cellulose (PAC) is a water-soluble polymer that provides fluid-loss control properties, shale inhibition, and salt tolerance. It is a drilling fluid additive and it is also used in completion fluids as a thickener for low density brines. PAC requires small concentrations to effectively reduce filtration rates and/or reduce and stabilize rheology and can be used in drilling fluids having a broad range of salinity, pH, and total solids content.

Polyanionic Cellulose (PAC) -HV is used for water-based drilling fluids. It reduces the filtration rate of many water-based oil and gas drilling fluids, increases and stabilizes the viscosity, and improves the hole cleaning and suspension properties in a wide variety of fluid environments.

Polyanionic Cellulose (PAC) -LV is used for solids-laden and water-based drilling fluids. It reduces the filtration rate of many water-based drilling fluids, especially solids-laden fluids, without causing significant increases in viscosity or gel strengths. Small amounts can reduce and stabilize the rheology of flocculated and/or solids-laden fluids.

	PAC-LV Low Viscosity	PAC-HV High Viscosity
Moisture (mass fraction) %	≤ 10	≤10
Apparent Viscosity (MPa·s)	≤ 40	≥ 50
Degree of Substitution	≥ 0.90	≥ 0.90
API Fluid Loss	≤ 40	≤ 23
Viscosity Brookfield 1%	≤ 50	≥ 1,200
pH of 2% Solution	6.0 - 8.0	6.0 - 8.0

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