



Specification of PAC LV Polyanionic Cellulose

Specification	Requirement
Product Name	PAC LV (Polyanionic Cellulose)
Chemical Formula	$(C_6H_9O)_n$
Appearance	White to off-white powder
Particle Size	90% pass through mesh size 80
Solubility	Highly soluble in water
pH (1% Solution)	6.0 - 8.0
Moisture Content	$\leq 10\%$
Viscosity (1% Solution)	≥ 20 centipoise (cps)
Bulk Density	400 - 600 kg/m ³
Ash Content	$\leq 0.5\%$
Gel Strength (2% Solution)	≥ 500 g/cm ²
Insoluble Residue	$\leq 0.2\%$
Filtration Control	Forms a thin, impermeable filter cake to control fluid loss in drilling fluids.
Shale Stabilization	Provides shale inhibition to prevent swelling and dispersion of shale formations.
Compatibility	Compatible with a wide range of drilling fluid additives and chemicals.
Packaging	Available in 25 kg bags or other suitable packaging options.
Storage	Store in a cool, dry place away from direct sunlight and moisture.
Handling	Avoid inhalation of dust. Use appropriate personal protective equipment (PPE) such as
Transportation	Handle and transport in accordance with applicable regulations. Ensure containers are securely closed and properly labeled during transportation.