



Polyanionic Cellulose High Viscosity (PAC HV 97%)

Technical Data Sheet

CAS No.- 9004- 32-4

Grade- Polyanionic Cellulose High Viscosity (PAC HV 97%)

Molecular formula- $[C_6H_7O_2(OH_2)OCH_2COONa]_n$

Product Description

PAC HV is a high-performance, water-soluble polymer designed for use in water-based drilling fluids. It effectively reduces filtration rates and increases viscosity, enhancing hole cleaning and suspension properties across a variety of fluid environments. PAC HV ensures stable and reliable performance under diverse drilling conditions.

Applications

PAC HV serves as a cost-effective additive to reduce API filtration rates in a wide range of water-based drilling fluids. It is compatible with fresh water, seawater, saturated salt water, solids-free brines, native muds, flocculated muds, inhibited muds, and contaminated systems, making it a versatile solution for challenging drilling operations.

Specifications

Standard	PAC HV 97% Based on API
Test Method	API 13A & ASTM
Appearance	Free-flowing white to creamish powder
Solubility in water	Completely soluble
Starch presence	Absent
Moisture Content (max %)	10%
Apparent Viscosity (Fresh water 1% soln. min.)	50 cps
Apparent Viscosity (Sea salt 1% soln. min.)	50 cps
pH (1% solution in deionized water)	6.5 – 8.5
Active Matter (Purity, min. %)	≥97%
Degree of substitution (min.)	≥0.7
NaCl content, max. %	3%
API Filtrate Volume (max. ml)	23 ml
Bulk Density (kg/m ³ , min.)	≥500
Temperature stability (°C)	≥150
Specific gravity (g/cm ³ at 20°C)	1.5 - 1.6

Packing and Storage

PAC HV 97% is packaged in 25 kg or 50 lb. in kraft paper bag or as per customer requirement. Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

Recommended Handling

All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Safety Data Sheet (SDS).

The above information is best to our knowledge and provided for manufacturing purposes. Al Battal Factory for Chemical Industries Company makes no warranty or guarantee concerning the handling, use or application of such product whether alone or in combination with other products in case unexpected events occur. Users are advised to make their own tests to determine the suitability and performance of the product.