

TECHNICAL PRODUCT INFORMATION SHEET

TiKEM PAC R
TiKEM PAC NFE-R

TiKEM PAC/PAC NFER is pure grade, high molecular grade Polyanionic Cellulosic Polymer (PAC) which is designed as shale inhibitor, fluid loss reducer and viscosifier.

TiKEM PAC NFER (NO FISH EYES): version of PAC R with high quality, special **easy dispersant** it is ready for using within a half an hour.

(30 minutes dissolution time is enough even in cold water and low mixing condition!)

Application:

TiKEM PAC/PAC NFER is a high performance product, readily dispersible in water base drilling muds ranging from fresh water to saturated salt water to KCl systems.

It is effective in a wide range of pH.

TiKEM PAC/PAC NFER reduces friction losses normally occurring during vertical and horizontal drilling.

TiKEM PAC/PAC NFER provides excellent hole cleaning, improves the rate of penetrations and decreases friction losses.

Furthermore TiKEM PAC/PAC NFER shields clay and shale from disintegration by water, preventing them from becoming wet and sloughing into the hole.

TiKEM PAC/PAC NFER acts as a viscosifier and gives a shear thinning fluid with good yield point to plastic viscosity ratio.

Fluid loss reduction provided by TiKEM PAC/PAC NFER in drilling fluids is a result of the long polymer chain. It builds up a thin, pliable and resilient filter cake.

Temperature resistance of TiKEM PAC/PAC NFER is dependent on different variables such as pH, oxygen content, salt and concentrations of salts present, fluid shear rate and exposure temperature.

It has been successfully field used up to 300°F (150°C).

Treatment:

TiKEM PAC should be mixed slowly through conventional jet type mud hoppers. Best results are obtained when the product is mixed at uniform rate, no faster than the mixing equipment can handle (normally 10-20min/sk). Avoid dumping the polymer into the hopper (slugging), as this promotes the formation of lumps or fisheyes which retard dispersion and reduce efficiency.

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TiKEM PAC/PAC NFER is compatible with virtually all additives for water based systems. It can tolerate monovalent salts, such as sodium and potassium, at any concentration; divalent salts, such as calcium and magnesium, are tolerated (Ca < 1000 ppm and Mg < 2500 ppm) by TiKEM PAC/PAC NFER in lower pH range (< 9.5). At higher pH the product tolerates lower concentrations of these ions.

TiKEM PAC/PAC NFER is not subject to degradation from microbiological attack.

Suggested dosage is in the range of **1.5-5, 5 kg/m³** water.
Improving effectiveness of bentonite mud suggested dosage is: **0, 5-2 kg/m³** mud.

General characteristics:

 Appearance :	white free flowing powder
 Moisture (max.):	9%
 pH (1% sol.) :	7-9
 Bulk density (min.):	600 kg/m ³
 Toxicity:	non toxic
 Shelf life:	12 months

Packaging: 25 kg paper sacks, 1000kg palletized
The product is available from stock

Origin: EU

Exclusive Distributor:

Ti KEM Hungary LTD.
info@tikemhungary.hu

Note:

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End of documents

Page: 2/2.