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SIDLEY CHEMICAL CO.,LTD



Polyacrylamide used in Oil
Field



Drilling Fluid Additive

Functions :

- Carry rock fragments
- Lubricate drilling bit
- Reduce the sticking accidents
- Prevent collapse
- And so on

Product	Molecular Weight x106	Hydrolysis Degree	Form
Anionic Polyacrylamide	20-21	Medium	Powder
	18-19	High	Powder
	11-13	Medium	Powder
	10-15	High	Powder
	5-10	Medium	Powder



Fracture Fluid Additive

Functions :

- Easy dissolve, can preparation on site, save time,
- Strong sand-carrying ability, sand ratio can reach to 199%,
- Low friction resistance, make the formation fracture easy to open,
- Low residue, can dilute with water at any proportion, no insoluble,
- And so on.

Product	Molecular Weight x106	Hydrolysis Degree	Form
Anionic Polyacrylamide	20-21	Medium	Powder
	18-19	High	Powder/emulsion
	5-15	Medium	Powder/emulsion



Acid Thickener

Functions :

- Dissolve the rock cement and the plug in the formation pore,
- Improve the permeability
- Increase oil output,
- Stable quality in high temperature,

Product	Molecular Weight x106	Hydrolysis Degree	Form
Cationic Polyacrylamide	7-9	High	Powder
	11-13	High	Powder



Water Plugging Agent

Functions :

- Change the waer penetration status, reduce water cut in oilfield and maintainn the formation energy,
- Can gengrate interpenetration polymer networks with higher temperature resistance,
- Improve the injection profile and plug the big channel,
- and so on

Product	Molecular Weight x106	Hydrolysis Degree	Form
Anionic Polyacrylamide , fast dissolution, high temp. and salinity resistance	11-13	Medium high	Powder
	18-20	Medium	Emulsio n/Powder
	22-5	High	Emulsio n/powder



Polymer Oil-displacing Agent -EOR

Functions :

- Increase the viscosity of injection water, ,
- Increase the flow resistance of the porous medium,
- Improve the oil-water mobility ratio
- Enhance the reservoir sweep efficiency and recovery ratio

Product	Molecular Weight x106	Hydrolysis Degree	Form
Polyacrylamide -- salinity resistant	8-36	Medium high	Powder
	18-36	Medium	Emulsion/Powder



Drag Reducer Agent

Functions :

- Quick drag reducing effect during the process of adjunction and lower at least 70% pump pressure
- Can be pre-mixed and continuous use, more convenient to use in field operation,
- Improve the mess flowing ways of the liquid,
- Increasing the guar gum fracturing viscosity and shale-gas system fracturing

Product	Molecular Weight x10 ⁶	Charge degree	Form
High efficiency Drag reducer	5-10	Medium high	Emulsion/ Powder
	2-18	Medium	Emulsion/ Powder
	16-19	Medium	Emulsion /Powder



Oil wastewater treatment

Functions :

- Treatment for reinjection water
- Treatment for refinery water
- Treatment for oily water

Item	Molecular Weight x106	Charge degree	Form	Application
Polyacrylamide—wastewater treatment	5-20	APAM-Medium	Powder	Refinery wastewater treatment
	8-25	CPAM-Medium	Emulsion	Oil reinjection wastewater Treatment
	9-13	CPAM- High	Powder	Oil reinjection wastewater Treatment
	15-25	APAM-Medium	Powder	Oily wastewater Treatment