

## Poly Cat™ Cationic Polyacrylamide



### General description:

**Poly Cat™** is an Acrylamide based polymer having high degree of cationic charge. It has been designed specifically for sludge treatment and to aid the dewatering of drilling cuttings prior to processing on centrifuges, vacuum filters and belt press. As the Cuttings are generally negatively charged, **Poly Cat™** is the right choice over other nonionic and inorganic flocculants.

### Product features:

- Optimum charge distribution facilitating easy agglomeration
- Ready to use, supplied in Gel form
- Avoid the Mixing difficulties with respect to dry polymers
- Low application dosage
- High level of dehydration efficiency
- Facilitates Low level of water content in sludge

### Technical specification:

<b>Appearance</b>	<b>Colourless free flowing Gel</b>
<b>pH</b>	5.0-7.0
<b>Odour</b>	Slight
<b>Specific Gravity at 20°C</b>	1.02 typical
<b>Flash Point</b>	>100°C
<b>Solubility in Water</b>	Highly miscible under continuous stirring
<b>Viscosity</b>	9000-15000cps
<b>Residue on evaporation</b>	9%-11%



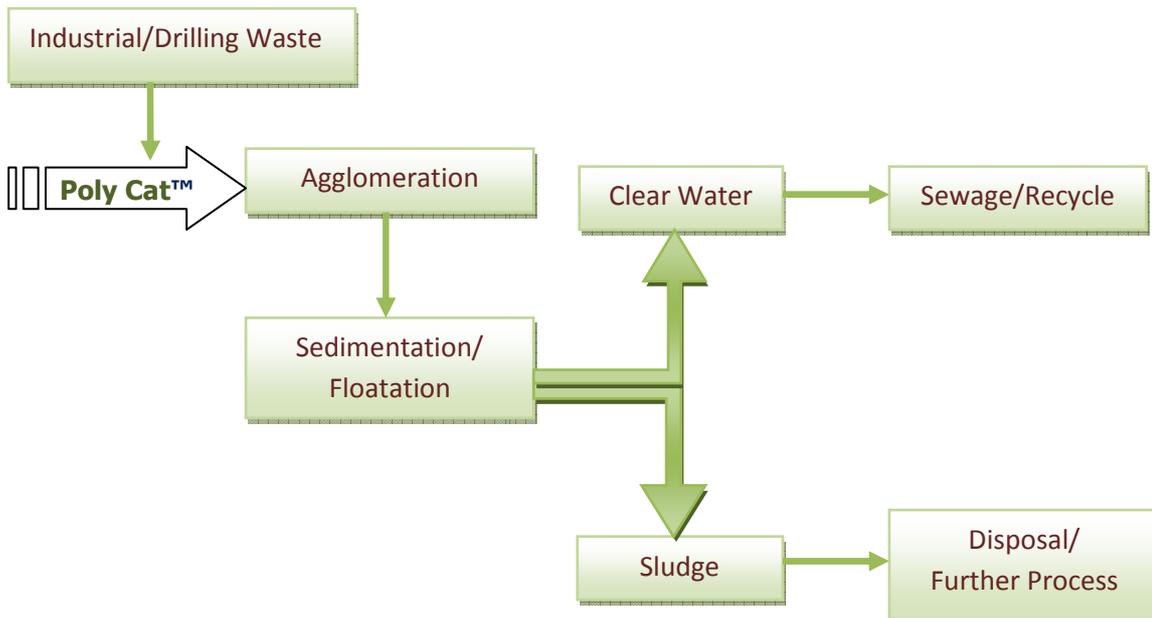
### Dosage:

The phase separation is largely due to charge imbalance. Hence the sludge properties determine the quantity of **Poly Cat™** required for an effective reaction. This is also pH dependent with, to be treated waste expected within 6-8

For a typical micro-tunneling process using only water as face support, the separation of drill cuttings can be effectively done using only 2-4kg of **Poly Cat™** per m<sup>3</sup> of cuttings.

For such cutting returns with bentonite, the consumption of **Poly Cat™** may increase depending upon the anionic charge presence.

### Process Flow chart



Bentonite | Polymer | Polymer-Clay Nanocomposites

## Amrfeo Pte. Ltd.

*the future of bentonite™*

32A, Chittaranjan Avenue, Calcutta 700012, India  
 Ph: +91 33 2212 0923 | Fax: +91 33 22120679 or +91 33 22122040  
 Email: [amrfeo@amrfeo.com](mailto:amrfeo@amrfeo.com) or [amrfeo@gmail.com](mailto:amrfeo@gmail.com) | Website: [www.amrfeo.com](http://www.amrfeo.com)

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