

# DRILLING CHEMICALS

## SUFLOC-P 64 (PHPA) (Quick & easy mixing dry powder)

|                     |   |   |
|---------------------|---|---|
| Composition         | : | Copolymer   |
| Polymer content     | : | 98%   |
| Physical Properties | : | White/creamy small granular powder, Slight ammonical Odor, Solubility in water 0.2,0.3% 27degree centigrade |
| Bulk Density        | : | 0.7 g/cm3.  |
| Proportioning       | : | 0.03 to 0.3 % of <b>SUFLOC – P 64</b> depending on water quality & viscosity required.                      |
| Toxicity            | : | None  |
| Packing             | : | 25 kg lined woven bags  |
| Storage & Handling  | : | Keep the floor clean; very slippery product when wet.   |
| Spillage            | : | Sweep or vacuum dry powder. Use absorbing materials if wet. Flush the spill area with chlorinated water.    |
| Breakdown           | : | Mud viscosity may be broken with strong oxidizers such as chlorine or mild acid preferably in dry form.     |

### SUFLOC – P 64

It is a multipurpose polymer which can be used in most drilling operations from small diameter holes to large drilled piers. Performs well in all fine soils and rock formations. Absolutely great for all forms of drilling in clayey soils.

|                             |   |  |
|-----------------------------|---|--|
| Diamond Coring              | : | Better lubrication, cooling & clearing of the drill bit will increase bit life   |
| Rotary Drilling             | : | Fast & clean hole drilling.  |
| Geo-technical Core Sampling | : | Possibility of 100 % recovery in cohesionless stands   |
| Drilled Piers               | : | Augered holes from 12 – 72”  |
| Air & Percussion Drilling   | : | Powerful foam stabilizer with good hole stability & better Cutting uplift.   |
| Water Wells                 | : | Perfectly safe for water wells   |
| All Diameter Tunneling      | : | All jacked pipe technologies benefit from the exceptional lubricating qualities of the polymer slurry which can be pumped at any viscosity ( slurry up to grease consistency ) |
| Caisson Sinking             | : | Lubricating slurry for gravity sunken caissons.  |
| Residual water treatment    | : | Used as flocculating agent resulting from the strong wrapping properties of the polymer.   |

## **SUFLOC – P 64**

Easy to mix dry powder  
More Polymer per rupee compared to emulsions  
Ideal for working in all cohesive soils  
Very easy to dispose  
Harmless to the environment

### **STAR ORECHEM INTERNATIONAL PVT. LTD.**

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# **LIQUID POLYMER EMULSION**

(Drilling Fluid Additives)

## **SPECTRUM – EL**

**SPECTRUM – EL** is a highly active multipurpose polymeric liquid drilling fluid emulsion. Its primary function is viscosity and Solid Encapsulation. It is designed for use in most drilling and soil stabilization applications. This includes bored piles, Water wells, diamond coring, exploratory drilling and in production of stable foams in air drilling.

**SPECTRUM – EL** also assists in imparting lubricity, selective flocculation and fluid loss control to the formation.

**SPECTRUM – EL** is readily soluble in fresh, brackish and salt water. It is compatible with Sodium Chloride or Potassium Chloride water environments.

### **GENERAL SPECIFICATIONS:**

|                         |                  |
|-------------------------|------------------|
| Physical form           | : Viscous Liquid |
| Colour                  | : Off White      |
| Specific Gravity        | : 1-1.08         |
| PH of 1 % Aqueous soln. | : 6.5- 8.0       |
| Active content          | : 35%            |
| Shelf Life              | : 6 Months       |

### **APPLICATIONS :**

The high “Yield Point” generated from **SPECTRUM – EL** allows efficient and better hole cleaning. High gel strengths created aid in the suspension characteristics of the fluid in static flow conditions. This allows for the suspension of larger or more solids in the hole and a lower slip factor whilst pumps are down.

**SPECTRUM – EL** stabilizes water-sensitive formations via encapsulation of active clays and shales. This allows better hole gauge, therefore utilizing less cement or grout. The encapsulation/stabilization of drilling cutting reduces the invasion of the fluid by ultra fines and guarantees easier ejection of cuttings at the surface whilst maintaining low solids drilling fluid.

#### **OTHER ADVANTAGES:**

Reduced bit balling

Reduced drill pipe torque and pumping pressure

Yields very rapidly

Is non-fermenting and does not require the use of biocides

Improves air and foam injection properties

Eliminates rod chatter in diamond drilling

**SPECTRUM – EL** is effective across a broad range of pH i.e. 6-13. No elaborate mixing equipment or knowledge of drilling fluids is required. Addition of the desired quantity of **SPECTRUM – EL** gradually to the mix tank with gentle stirring is sufficient. Hydration of the polymer is almost immediate and the fluid can be ready in 10- 15 minutes. Unlike powdered polymer, the likelihood of fish eye (gelled polymer) is very unlikely. This reduces the chance of any unhydrated product blocking up filter screens or pump valves.

#### **PACKING**

25/50 Kgs HDPE Containers

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