

# DEPOLARIZED ASPHALT

## Technical Bulletin

**DEPOLARIZED ASPHALT** is a water base emulsion, composed of dispersed asphalt, emulsified with a colloid mineral and sulfonated organic resins to be used in water-base muds.

This odourless emulsion, non-toxic, of dark brown colour, is used to stabilize shale sections, sealing micro-fractures, controlling solids dispersion and improving wall cake characteristic, **DEPOLARIZED ASPHALT** also acts as a powerful filtration reducer to High-Temperature and High-Pressure.

This **DEPOLARIZED ASPHALT** does not contain surfactant agents used in shale-control applications.

It is a non-flammable product while it is in wet state.

**DEPOLARIZED ASPHALT** is a temperature-stable asphalt complex which has proven to be one of most effective high-temperature high-pressure filtration-control additives available and also It is often used to seal low-pressure and depleted formations.

This product is environmentally friendly because it is free of toxic volatile compounds.

### Typical Physical Properties

Physical appearance.....	Dark brown liquid
Specific gravity.....	1.1-1.2
pH.....	8.5
Remainder by evaporation.....	45-55%
Coefficient of miscibility in water.....	infinitely
Flammability (wet).....	non-flammable

### Applications and Advantages

**DEPOLARIZED ASPHALT** increases wellbore stability by:

- \* Plugging micro-fractures and sealing shales.
- \* Inhibiting swelling and water wetting shales.
- \* Reducing High-Temperature High-Pressure (HTHP) fluid loss.
- \* Resisting to the polluting agents.
- \* Improving filter cake quality.
- \* Stabilizing the rheological properties of mud.
- \* It is compatible with great variety of systems with water.
- \* No toxic, does not contain toxic volatile compounds.
- \* Non inflammable when it is in wet state.



Injection and Environmental Products

- \* Easy to handle and to mix.
- \* Reducing torque remarkably and increasing the lubricity.
- \* The product improves its yield with the increase of the temperature.
- \* The concentrations will depend on the given use (sealed of micro-fractures or filtration reducer).

### **Limitations**

Do not heat up the drums or store them with temperatures higher than 40 °C.

### **Packing and Storage**

**DEPOLARIZED ASPHALT** is packaged in drums of 20 liters or plastic drums pallets of 720 liters. Store in a dry location away from sources of heat ignition and minimize dust.

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