

# PIPE ENV

## Spotting Fluid

### Product Description

PIPE ENV is a water-dispersible, low-toxicity spotting fluid designed to free differentially stuck pipe by penetrating between the wall cake and drill string. PIPE ENV spotting fluid also offers strong metal wetting characteristics and will act as a lubricant after added into the active system.

### Typical Physical Properties

Physical appearance	Dark-brown liquid
Specific gravity	0.9 - 1.03
Solubility	Insoluble, slightly dispersible
Flash Point	190° F (88° C)

### Application

PIPE ENV additive is a single-package, low-toxicity spotting fluid. It can be used for environmentally sensitive offshore and onshore wells where a low-toxicity, non-oil-base spotting fluid is specified.

Success in freeing differentially stuck pipe is greatest when the spotting fluid is applied as soon as possible after the pipe becomes stuck. A fluid that can be mixed and spotted quickly often frees the drill string before fishing operations are required. Because PIPE ENV additive is a single package, liquid blend made for fast mixing, it is ideal for spotting situations.

After being used as a spotting fluid, up to 3% v/v by volume PIPE ENV additive can be incorporated into the active system to reduce torque and drag and to reduce the possibility of differential sticking.

### Advantages

- Effective soak solution that quickly frees differentially stuck pipe
- Can be incorporated into most water-base mud systems
- Contains no hydrocarbons and is water dispersible
- Aids in lubrication and reduces the coefficient of friction, thus improving the torque- and drag-reduction characteristics of the mud
- Excellent stability at down hole temperatures and pressures

### Limitations

- Requires clean, dry tank for mixing
- Water contamination results in an undesirable increase in viscosity

### Toxicity and Handling

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

### Packaging and Storage

PIPE ENV spotting fluid is packaged in 5-gal (18.9-L) cans and 55-gal (208-L) drums.

Store in a dry location away from sources of heat or ignition. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

Important Note: These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and method of use of our product are beyond our control. We recommend that the prospective user determine the suitability of our material and suggestions before adopting them on a commercial scale.