

# PIPE NW

## Spotting Fluid

### Product Description

PIPE NW is a water-dispersible, low-toxicity spotting fluid designed to free differentially stuck pipe by penetrating between the wall cake and drill string. PIPE NW 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	0.9-1.3
Solubility in water	Insoluble, slightly dispersible
Flash point	190° F (88° C)

### Application

PIPE NW 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 NW additive is a single package, liquid blend made for fast mixing, it is ideal for spotting situations.

PIPE NW additive contains no hydrocarbons, is compatible with most mud systems and can be used either weighted or unweighted in wells with differentially stuck pipe. If a density greater than 9 lb/gal (1.08 s.g.) is required, the PIPE NW spot should be weighted with weighting materials. If a density less than 9 lb/gal (1.08 s.g.) is required, PIPE NW additive should be used "neat", without dilution. Water should not be added to PIPE NW slurry for any reason. This causes an undesirable increase in viscosity.

### 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

### Recommended Treatment

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

### Toxicity and Handling

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

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.

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### Packaging and Storage

PIPE NW 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, and minimize dust.

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