

## OIL & GAS FLUID TREATMENT



**PENETONE 2012C** is an oil-soluble, tenuous film-forming corrosion inhibitor designed for severely corrosive environments. When used for flow line maintenance or down-hole batch treatment programs, the inhibitor film is sufficiently tenacious to resist the shear forces created by high velocity production fluids and solids.

**PENETONE 2012C** offers excellent corrosion protection in low pH, high temperature, and high brine systems and has also demonstrated superior field performance in production systems containing high levels of dissolved H<sub>2</sub>S, CO<sub>2</sub> and organic acid formation water.

## DIRECTIONS FOR USE

The minimum desired inhibitor film thickness is 3 mils (0.0762 mm) in flow line maintenance. Production volumes and line velocities/flow regimes largely determine the frequency of batch applications with a minimum of 5-10 seconds of contact time with the pipe wall.

For down hole applications, pre-mix the inhibitor with clean lease crude or diesel fuel at a 1:1 ratio to assist in carrying the chemical down the casing and into the tubing string for treatment of exposed steel surfaces. Pre-mixing the corrosion inhibitor with a diluent greatly increases the efficiency of the batch treatment.

**PENETONE 2012C** may also be used in continuous water injection applications depending on location and situation. Effective inhibition can be achieved with 25-50 ppm<sub>v</sub> in produced water. More aggressive environments may require higher injection volumes.

# PENETONE 2012C

## BATCH CORROSION INHIBITOR

### PHYSICAL PROPERTIES

Appearance	Brown liquid
Odour	Aromatic/amine
Specific Gravity @ 20°C	0.85-0.95
Viscosity	Not available
pH	7-8
Flash Point (TCC)	<23°C (<73.4°F)
Boiling Point	Approx. 138°C (282°F)
Freezing Point	Approx. -26°C (-15°F)
Auto ignition temperature	Approx. 432-530°C (810-986°F)
Water Solubility	Miscible
Active Content	30-60%

### INCOMPATIBILITY

Acids, oxidizing agents

### WAREHOUSING PRECAUTIONS

Keep containers tightly closed away from direct sunlight in a dry, cool and well-ventilated place, away from incompatible materials.

### AVAILABLE SIZES

			
205L	1000L		

### FIRST AID MEASURES

#### EYE CONTACT

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

#### SKIN CONTACT

Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing before reuse.

#### INHALATION

If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

#### INGESTION

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### HEALTH

2

### FLAMMABILITY

3

### REACTIVITY

0

#### LEGEND

0 = MINIMAL RISK  
1 = SLIGHT RISK  
2 = MODERATE RISK  
3 = SERIOUS RISK  
4 = SEVERE RISK

### PERSONAL PROTECTION Security equipment



WHMIS



**IMPORTANT:** Before using PENETONE 2012C, always be sure to read and follow precautions and directions for use appearing on the product container label and on the safety data sheet (S.D.S).



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