

### OIL & GAS FLUID TREATMENT



**PENETONE 2010C** is a water-miscible “packer fluid” or “gunker”, otherwise known as an abandonment suspension corrosion inhibitor, designed to inhibit corrosion in pipelines and wells that are no longer in use. **PENETONE 2010C** will effectively protect against bacterial, dissolved oxygen and acid gas attack as well as other forms of electrolytic corrosion.

For reduction of corrosive environments, batch volumes of **PENETONE 2010C** sufficient to fill discontinued flowlines are pumped into the well annulus and tubing and circulated after blending with fresh or produced water. In abandoned pipelines, similar corrosion control is achieved after pig train applications.

### DIRECTIONS FOR USE

#### Treatment rates

Treatment rates will vary depending on location and situation. Typically, effective corrosion inhibition can be achieved with 0.5 to 1.5% v/v of **PENETONE 2010C** per m<sup>3</sup> of fresh or produced water.

Volumes of **PENETONE 2010C** and water-diluent required for the abandoned flowlines or wells should be calculated from rate of corrosion data. For more aggressive environments, higher concentrations of **PENETONE 2010C** may be required.

# PENETONE 2010C

## ABANDONMENT SUSPENSION CORROSION INHIBITOR

### PHYSICAL PROPERTIES

Appearance	Brown liquid
Odour	Alcohol/amine
Specific Gravity @ 20°C	0.850-0900
Viscosity	Not available
pH	Not applicable
Flash Point (TCC)	<37.8°C
Boiling Point	Not available
Freezing Point	≤ -40°C
Autoignition temperature	Not available
Water Solubility	Miscible

### 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

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

**SKIN CONTACT:** Wash with plenty of water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.

**INHALATION:** If difficulties occur after dust/fume/gas/mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

### 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 2010C, 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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