

PRODUCTION CHEMISTRY



PENETONE 1000D SERIES is a full line of oil-soluble products designed to resolve difficult or tight emulsions in treaters and tanks. Each product in the **1000D SERIES** is dispersed either by batch/slug application directly into or by continuous injection upstream of the treater or tank inlet where they migrate to the oil/water interface, reduce or disrupt interfacial surface tension, and promote coalescence of dispersed water droplets for rapid water drop. Alternatively, treatment can be performed at the well head or into battery flowlines.

FEATURES AND BENEFITS

- Low freeze points
- Oil-soluble formulations
- **1001D** for versatile treatment and water drop in light oil emulsions
- **1002D** for treatment and resolution of heavy or slop oil emulsions
- **1005D** for full treatment and resolution of light to medium gravity oil emulsions.
- FWKO/HTS bottle testing program available on fresh emulsion samples
- Design of site-specific demulsifiers/emulsion breakers available for "bad oil" problems or difficult treating applications

DIRECTIONS FOR USE

Chemical type

Penetone 1001D: *Knock Out Demulsifier* – versatile applications for rapid water drop.
Penetone 1002D: *Heavy oil/Slop oil Demulsifier* – for resolution of heavy oils or slop oils.
Penetone 1005D: *Light to Medium Gravity Demulsifier* – for interface control, BS resolution, water drop, and top oil polishing.

Treatment rates

Will vary depending on location and situation.

Typically, effective emulsion resolution can be achieved with 50-500 ppmv per m³ of production, depending on oil gravity and viscosity.

Batch volumes may be greater for emulsion breaking at lower temperatures or with heavy oil.

PENETONE 1000D SERIES

DEMULSIFIER/EMULSION BREAKING

PHYSICAL PROPERTIES

Appearance	Brown or dark brown liquid
Odour	Solvent, aromatic
Specific Gravity @ 20°C	0.850-0.950
Viscosity	Thin
pH	Not applicable
Flash Point (TCC)	<37.8°C
Boiling Point	Not determined
Freezing Point	<-40°C
Foaming Tendency	Nil
Autoignition temperature	Not determined
Active content	20-30%%
Water Solubility	Dispersible

INCOMPATIBILITY

Oxidizing materials

WAREHOUSING PRECAUTIONS

Store away from heat sources and flames

AVAILABLE SIZES

			
20L	205L	1000L	

FIRST AID MEASURES

EYE CONTACT

Wash with plenty of water for 15 minutes. Consult physician if irritation develops or persists.

SKIN CONTACT

Wash with soap and water. Consult physician if irritation develops or persists.

INHALATION

Give fresh air or artificial respiration. Consult physician.

INGESTION

Administer 1-2 glasses of water. **DO NOT** induce vomiting. Seek medical attention. Never administer fluids orally to an unconscious person.

HEALTH

2

FLAMMABILITY

4

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 1000D SERIES, 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).