



# MICROSTABILIZER 40D

## HT Stabilizer for Microlatex DA46L

### DESCRIPTION

MICROSTABILIZER 40D is a proprietary blend stabilizer specially developed to extend the temperature range of Microlatex DA46L for oil well cementing operations.

### APPLICATION :

Controlling as migration in gas wells is a critical step towards achieving good zonal isolation. The cement column becomes self-supporting during its setting stage when it starts developing high gel strength at static conditions. As the pore pressure in the gas well exceeds the hydrostatic pressure of the cement column, the gas migration process starts.

Microlatex DA46L is the first choice additive for blocking as migration during the cement setting transition state. It is a liquid latex additive that is also highly recommended to lower the equivalent circulating density (ECD) but as a fluid loss control additive in cement slurries with excellent performance. Microlatex DA46L can be used across wide range of applications and bottom hole temperatures.

At BHCT > 200°F MICROSTABILIZER 40D should be used in conjunction with Microlatex DA46L to extend its temperature application. It is usually used at around 5% of the Microlatex DA46L loading depending on BHCT.

Lab testing is required to establish the optimum ratio.

It is also strongly recommended to use MICROSTABILIZER 40D in salt environments. The product helps prevent slurries designed with Microlatex DA46L from de-emulsifying presence of salt.

For more information on the application of MICROSTABILIZER 40D as Latex stabilizer for cementing operations, please contact Account Manager.

### PHYSICAL PROPERTIES

Appearance	: Clear to pale yellow liquid
Specific Gravity	: $\pm 0.95$ g/cc @ 20°C
Odour	: Characteristic glycol smell
Solubility	: Miscible in water in all proportions

### SAFETY AND HANDLING

MICROSTABILIZER 40D is supplied 5 gallon jerry cans or 55 gallon plastic drums.

Before handling, storage or use the Material Safety Data Sheet for details.

The information contained in the technical data sheet is provided based on our best knowledge and current level of information to assist the usage of the material without any liability or guarantee. Often the product is used under conditions beyond our control, we can not guarantee anything, but the product itself. The user is advised to ensure the suitability and safety of the product for any particular application.

Delmon Chemical Industries, Specialty Chemicals Division, P. O. Box 6800, Dammam 31452, Saudi Arabia.

Tel: +966 3 8121771 (5 Lines), Fax: +966 3 8121705,

E-mail: dcichem@delmon.com.sa, Website: www.delmon.com.sa

A DELMON GROUP COMPANY



# DELMON DD

## Drilling Detergent

### DESCRIPTION

DELMON DD is a biodegradable detergent used in water based drilling mud systems. DELMON DD is formulated to minimize the surface tension of all water-base mud system and also to reduce sticking tendency of water sensitive shale cutting.

### APPLICATION

DELMON DD is highly active and used primarily in fresh water or sea water muds for upper hole drilling. It minimize bit and Bottom-Hole Assembly (BHA) balling, reduce surface tension, and aid in dropping sand and the removal of drill solids. It may be used as an emulsifier at any point in the drilling operation to improve emulsification of oil and reduce the viscosity of oil contaminated fluids. DELMON DD detergent reduces torque and drag, even when no oil is present in the system.

Normal treatments ranges from 0.2 to 0.4 gallon/100 bbl (0.5 to 1.0 liter/M3 of Delmon DD to achieve satisfactory performance under most conditions.

### ADVANTAGES

Reduces the shale balling tendencies of the bottom hole assembly, thus lowering torque and drag.

Reduces the surface tension and help to drop sand and remove drill solids.

Improves water-wetting action on all solids and reduces the sticking tendency of reactive shale cuttings. This aids in increasing the horsepower at the bit and results in improved drilling rates.

### PHYSICAL PROPERTIES

Appearance : Clear to light blue green liquid  
Specific Gravity : 1.01 – 1.04  
pH (full strength) : >10.5  
Solubility : Miscible in water in all proportions  
Freezing Point : 0°C

### PACKING

DELMON DD is supplied 5 gallon pails or 55 gallon plastic drums.

### STORAGE

Store under cover at temperature above +5°C and below +30°C. Keep away from direct sunlight and protect from frost.

### SHELF LIFE

Minimum shelf life of one year when stored in original unopened containers.

### HEALTH AND SAFETY

#### *Safe handling recommendation*

Utilize normal precaution for employee protection when handling chemical products. Use appropriate respirator, gloves goggles, and apron is recommended for employees comfort and protection. Do not reuse empty containers. Refer Material Safety Data Sheet (MSDS) prior to use.

#### *Medical assistance*

Medical assistance should be sought, if DELMON DD is ingested or comes in contact with eyes. Eyes should be rinsed with excess amount of clean fresh water.

The information contained in the technical data sheet is provided based on our best knowledge and current level of information to assist the usage of the material without any liability or guarantee. Often the product is used under conditions beyond our control, we can not guarantee anything, but the product itself. The user is advised to ensure the suitability and safety of the product for any particular application.

Delmon Chemical Industries, Specialty Chemicals Division, P. O. Box 6800, Dammam 31452, Saudi Arabia.  
Tel: +966 13 8121771 (5 Lines), Fax: +966 13 8121705,  
E-mail: dcichem@delmon.com.sa, Website: www.delmon.com.sa

A DELMON GROUP COMPANY



# MICROLATEX DA 46L

## PRODUCT NAME

MICROLATEX DA 46L

## PRODUCT APPLICATION

Fluid loss and gas migration control additive for oil well cementing

## DESCRIPTION, USAGE & BENEFITS

Gas migration control in gas well is a critical step in achieving zonal isolation. During the setting stage at static conditions, the cement column develops high gel strength and becomes self supporting. Gradually, the pore pressure of the well exceeds the hydrostatic pressure of the cement column results in gas migration.

MICROLATEX DA 46L recommended as the additive for blocking gas migration during the cement setting transition state. It is a liquid latex additive that functions also as a general fluid loss additive in cement slurries. The fluid loss properties of MICROLATEX DA 46L are enhanced when used in conjunction with a dispersant. The recommended concentration depends on the slurry density as well as the bottom hole static temperature (BHST) and varies between 1.0 – 3.0 gallons per sack of cement (gps) to achieve <50 ml API fluid loss value.

At BHCT (Circulating Temperature) above 94°C, stabilizer should be used in conjunction with MICROLATEX DA 46L to extend its temperature application. It is usually used at around 5% of the MICROLATEX DA 46L loading depending on BHCT. Lab testing is required to establish the optimum ratio. Stabilizer helps prevent slurries with MICROLATEX DA 46L from de-emulsifying in the presence of salts or divalent ions. In these environments, stabilizer protects the latex polymer emulsion that enable slurries with MICROLATEX DA 46L to control gas migration and fluid loss.

## CHEMICAL COMPOSITION

Styrene Butadiene copolymer emulsion

## PHYSICAL PROPERTIES

Physical Appearance : White smooth liquid  
Odour : Mild odour  
Boiling Point/Boiling Range(°C) : Approx. 100  
Melting Point/Freezing Point (°C) : Approx. 0  
Flammability : Non Flammable  
Specific Gravity : Approx. 1.01  
Solid Content : Approx. 50%  
Solubility : Miscible in Water in all proportions

## PACKING

MICROLATEX DA 46L is supplied in 55 gallons drums

## STORAGE

Store at temperature above +5°C and preferably below at +35°C. Keep away from heat source. Protect from frost.

## SHELF LIFE

When stored in original un opened containers, shelf life of one year is expected.

## HEALTH AND SAFETY

**Toxicity** : Non toxic

**Flammability** : Non flammable

**Skin contact** : Prolonged contact is to be avoided. Use of a barrier cream or gloves will protect sensitive skins.

**Cleaning** : Remove with water when wet and with a suitable hand cleaner when dry.

**Medical assistance** : Medical assistance should be sought if MICROLATEX DA 46L is ingested or comes in contact with eyes. Eyes should be rinsed with excess amount of clean fresh water.

**Ventilation** : Ventilation to the working area is desirable.

The information contained in the technical data sheet is provided based on our best knowledge and current level of information to assist the usage of the material without any liability or guarantee. Often the product is used under conditions beyond our control, we can not guarantee anything, but the product itself. The user is advised to ensure the suitability and safety of the product for any particular application.

Delmon Chemical Industries, Specialty Chemicals Division, P. O. Box 6800, Dammam 31452, Saudi Arabia.

Tel: +966 3 8121771 (5 Lines), Fax: +966 3 8121705,

E-mail: dcichem@delmon.com.sa, Website: www.delmon.com.sa

**A DELMON GROUP COMPANY**