



Just The Right Chemistry

DSC GOLD FLUSH SYSTEM

Tubing Cleaners and Displacement Additives:

DSC Gold Flush is an ideal cleaner for demanding applications in downhole workstring and casing cleaning. **DSC Gold Flush** scrupulously and safely removes pipe dope from metal surfaces along with other greases and oily residues adhering to the tubular surfaces of the well and facilitates carrying them to the surface.

DSC Well Wash I is a select blend of surfactants in a mixed alcohol system designed for the cleaning of casing, drill pipe and surface equipment before the introduction of completion fluid. **DSC Well Wash I** is insoluble in water and features low density, enabling it to be quickly separated from both fresh water and brines. **DSC Well Wash I** effectively displaces the mud system prior to completion and scrupulously cleans the tubing and casing for gravel packing operations. Its use reduces and eliminates the need for filtering brine and completion fluids.

DSC Gold Flush II is a versatile penetrating cleaner which, when used in conjunction with **DSC Gold Surf I**, effectively loosens and removes oil base and synthetic base drilling fluid residue from the wellbore.

DSC Gold Flush III has been developed in response to customer response for a safe and effective non aqueous, non terpene cleaning agent for pipe dope removal. **DSC Gold Flush III** has a mild clean odor and is a strong, safe and cost effective cleaner/degreaser.

DSC Gold Flush SB is designed specifically for solids free density controlled wellbore cleaning. **DSC Gold Flush SB's** formulation can achieve a high level of cleaning during the displacement while providing hole stability and maintaining well control in an open hole environment. **DSC Gold Flush SB** allows the operator to open hole gravel pack in a clean and synthetic or oil based drilling fluid free environment thereby ensuring proper gravel placement and increased well productivity.

DSC Gold Surf I is a highly concentrated water wetting surfactant designed to assure wall cake removal and non abrasive cleaning. **DSC Gold Surf I** when used in conjunction with **DSC Gold Flush II** aids in effectively and efficiently cleaning the wellbore while promoting agitation of surface soils during the displacement.



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TECHNICAL DATA SHEET

DSC GOLD FLUSH Tubing Cleaner and Pipe Pickling Additive

Outstanding Characteristics

Innovative, concentrated, eco-friendly pipe dope and grease remover.

Description

DSC Gold Flush is a highly effective solvent with proven success in dissolving a wide range of pipe dopes from downhole tubulars. **DSC Gold Flush** may be used to completely remove oil, grease and residue from the casing, work string, tubulars, pits and lines.

Application:

A thorough workstring cleaning is necessary before any other surface treatments in the completion phase can occur. A typical pipe pickling process should begin with using our top quality pickling solvent, **DSC Gold Flush**. The pipe pickling solvent must be pumped prior to pumping the pipe pickling acid. **DSC Gold Flush** in combination with the pipe pickling acid works to eliminate stubborn pipe scale, rust, cement, mud contamination and other foreign debris that can cause major well bore damage and even costly failures during well completion operations.

Typical Treatment:

Each fluid should be pumped separately to the end of the workstring at desired pump rate, and reversed out. A minimum of three (3) tubing volumes should be reverse circulated after the acid treatment.

Capture pipe pickling acid solution at surface and dispose of according to Local, State and Federal Regulations.

A typical sequence and volume of treating fluids is:

1. 210 Gallons of **DSC GOLD FLUSH**.
2. 420 Gallons of 15% Hydrochloric Acid (HCL) containing:
 - a. 1 Gallon of Corrosion Inhibitor.
 - b. 2 Gallons of Silt Suspending Agent.
 - c. 20 Pounds of Iron Sequestering Agent.

Note: Our customer support staff will run the program to meet your well program to determine the optimum amount of **DSC Gold Flush** to use based on the rig cost.

Shipping And Handling Instructions:

DSC Gold Flush is shipped in 55 gallon drums, 350 gallon and 550 gallon stainless steel tote tanks. A Material Safety Data Sheet outlining recommended safe handling of **DSC Gold Flush** is available upon request.



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TECHNICAL DATA SHEET

DSC BIO SOLV

Description:

DSC BIO SOLV is a downhole pipe dope and hydrocarbon remover. **DSC BIO SOLV** is an environmentally safe, biodegradable liquid, which is used in place of the aromatic solvents; e.g. benzene, ethyl benzene, toluene and xylene (BETX's). **DSC BIO SOLV** liquefies (dissolves) natural and synthetic hydrocarbons including the higher molecular weight, asphaltenes, paraffins and waxes. After certain applications, such as pipe pickling or well bore cleaning, mixture of **DSC BIO SOLV**, hydrocarbons, solids and water can be separated by allowing the mixture to stand quiescent (e.g. stand in a settling tank). The mixture will separate with the **DSC BIO SOLV** and hydrocarbons accumulating on top of the water and the solids, e.g. pipe dope metals, settling to the bottom. Any excess **DSC BIO SOLV** and hydrocarbons can be placed in a production line and sent to a refinery. In the production line any excess **DSC BIO SOLV** will liquefy any crystallized hydrocarbons (e.g. paraffins and asphaltenes), thereby clearing the line of these troublesome solids.

Benefits:

Environmentally safe
Nonflammable

Low vapor
Versatile applications

Application:

Paraffin Removal: **DSC BIO SOLV** is the environmentally safe product for handling paraffin problems from the well to the refinery.

Pipe Pickling: **DSC BIO SOLV** is the environmentally safe replacement for the aromatic solvents (BETX's) with xylene being commonly used solvent for removing pipe dope during the pipe pickling operation prior to gravel packing.

Wellbore Cleaning: **DSC BIO SOLV** is the environmentally safe product to clean the wellbore and surface system of oil-based and water based drilling muds prior to utilizing a clear brine. It's use would minimize the time required to filter completion brines.