



TECHNICAL DATA SHEET  
April 1, 2011

## DSC GOLD SURF C Cementing Additive

### *Outstanding Characteristics:*

Ideal for lowering surface and interfacial tensions. It is also an ideal wetting agent at very low concentration in seawater and light brines.

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### *Description:*

**DSC Gold Surf C** is a concentrated blend of non-ionic surfactants and special alcohol's. **DSC Gold Surf C** is designed to lower surface and interfacial tensions so that it can penetrate the synthetic oil or oil base drilling fluid wall cake and residue, thereby allowing them to be circulated out and completely removed from the wellbore prior to cementing. This prepares the wellbore for long lasting adhesion to the cement.

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### *Application:*

The unique ability of **DSC Gold Surf C** to diffuse the surface of a liquid, absorb to the surface and subsequently lower the surface tension of the solution of the oil base and synthetic oil base drilling fluid. **DSC Gold Surf C** works by orientating its polar and non-polar head and tail groups at the liquid/liquid interface. When present in sufficient quantities, **DSC Gold Surf C** molecules aggregate to form clusters, or "micelles", which prevent further change in the surface tension of the oil base and synthetic oil base drilling fluid wall cake and residue. The concentration of the **DSC Gold Surf C** present when micelle formation occurs is characteristic of the critical micelle concentration or "CMC" of the solution. Adding more **DSC Gold Surf C** past the CMC can not only destroy the effectiveness of the **DSC Gold Surf C**, but also significantly increase the cost of the cement spacer system. **DSC Gold Surf C** is appropriate for a wide variety of cement spacer types. For a specific **DSC Gold Surf C** recommendation, technical and application information is available to help provide the recommended amount of **DSC Gold Surf C** for your downhole cleaning needs. Please call a DSC Customer Service Representative at 1-800-737-3546.

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### *Shipping and Handling Instructions:*

**DSC Gold Surf C** 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 Surf C** is available upon request.