



Product Data Sheet

Product Description

Product Name: ProFlush WBD-223
Chemical Name: Cementing pre-flush
Company Name: ARC Products Inc
Address: 4010 La Reunion Parkway
Suite 160
Dallas, TX 75212
Telephone Number: (214) 638-2468

Product Applications

ProFlush WBD-223 is a powdered pre-flush that was designed to simultaneously wet formation surfaces and help remove water based drilling muds as preparation for the next step of the cementing process. WBD-223 disperses quickly into water and does not clump or gel, causing no problems during pumping.

ProFlush WBD-223 is pumped ahead of the cement to separate it from water based drilling muds. When pumped ahead of the cement ProFlush WBD-223 will leave downhole surfaces water wet and remove drilling mud residue, which can result in an improvement in quality of the bond between cement, casing and formation.

ProFlush WBD-223 should be compatible with all water based muds and cement slurries but if uncertain test for compatibility before using the product. ProFlush WBD-223 should be compatible with nonionic and anionic additives.

Typical Properties

Appearance	Tan powder
pH, (neat)	7.0 - 9.0
Density (lbs/ft³)	
Specific gravity	2.10

Storage and Handling

Storage	Make sure that partial bags are tightly sealed because the product is slightly hygroscopic.
Handling	Use appropriate personal protective equipment when working with ProFlush WBD-223. Do not get into eyes, on skin, ingest or inhale dust generated during the use of the product. Try to prevent the generation

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of dust during use of the product. Make sure that proper ventilation and eye washes/safety showers are present in the immediate work area. Do not flush product into the sewer system.

Product Performance

Using a 10ppg WBM a series of rinse off and compatibility tests were conducted using ProFlush WBD-P:

<u>ProFlush WBD-P, %w/w</u>	<u>Viscosity @ 180°F,</u> <u>cps</u>	<u>Rinse off @ 180°F,</u> <u>%</u>	<u>ProFlush WBD-P, lbs per barrel</u>
3.0	2.7	90	
2.0	3.5	99	
1.0		100	

Compatibility and rinse off testing was conducted at a 1:1 ratio of mud to pre-flush solution.