



Product Data Sheet

Product Description

Product Name:	ProFlush WBD-P
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-P is a solid/powdered/dry 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-P disperses quickly into water and does not clump or gel, causing no problems during pumping.

ProFlush WBD-P is pumped ahead of the cement to separate it from water based drilling muds. When pumped ahead of the cement ProFlush WBD-P 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-P should be compatible with all water based muds and cement slurries but if uncertain test for compatibility before using the product. ProFlush WBD-P should be compatible with nonionic and anionic additives.

Typical Properties

Appearance	Tan powder
pH, (neat)	8.0 - 10.0
Density (lbs/ft³)	
Specific gravity	1.57

Storage and Handling

Storage Make sure that partial bags are tightly sealed because the product is hygroscopic.

Handling Use appropriate personal protective equipment when working with ProFlush WBD-P. Do not get into eyes, on skin, ingest or inhale dust generated during the use of the product. Try to prevent the generation of dust

Date: 12/07/2021
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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>
1.0	9.5	99	3.50
0.5	8.3	80	1.75

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

Rinse off performance of ProFlush WBD-P was measured at two temperatures to determine the effect on performance:

<u>ProFlush WBD-P, %w/w</u>	<u>ProFlush WBD-P, lbs per barrel</u>	<u>Rinse off @ 75°F, %</u>	<u>Rinse off @ 180°F, %</u>
1	3.50	64	99
0.5	1.75	77	80

The rinse off was higher at both concentrations at 180°F.

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ProFlush WBD-P was developed in collaboration with Olive & Branch Merchandizing & Distribution LLC.