



# 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

<b>Appearance</b>	Tan powder
<b>pH, (neat)</b>	7.0 - 9.0
<b>Density (lbs/ft<sup>3</sup>)</b>	62.0
<b>Specific gravity</b>	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-223:

<u>ProFlush WBD-223, %w/w</u>	<u>Viscosity @ 180°F, cps</u>	<u>Rinse off @ 180°F, %</u>	<u>ProFlush WBD-223, lbs per barrel</u>
3.0	2.7	90	10.50
2.0	3.5	99	7.00
1.0		100	3.50

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



*ProFlush WBD-223 was developed in collaboration with Olive & Branch Merchandizing & Distribution LLC.*