



Product Data Sheet

Product Description

Product Name: ProFlush OBD-1 and OBD-2
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 OBD is a pre-flush that was designed to simultaneously wet formation surfaces and help remove oil based drilling muds as preparation for the next step of the cementing process.

ProFlush OBD is pumped ahead of the cement to separate it from Oil based drilling muds. When pumped ahead of the cement ProFlush OBD 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. Since ProFlush OBD is a Newtonian fluid it can be placed into turbulent flow in the annulus, which also aids in effective mud removal.

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

ProFlush OBD has two components: ProFlush OBD-1 and ProFlush OBD-2 that can be added to water to form ProFlush OBD. ProFlush OBD-1 and OBD-2 were developed to provide excellent rinse off and water wetting when used as a pre-flush for oil based muds. The products can be used individually or in combination to optimize performance in the application. ProFlush OBD-1 is more hydrophobic than OBD-2 and provides better rinse off and water wetting than OBD-2. Since ProFlush OBD-2 is more hydrophilic than OBD-1 it will perform better with more polar oils and can be used to reduce the viscosity of emulsions formed with OBD-1.

Typical Properties

	ProFlush OBD-1	ProFlush OBD-2
Appearance	Water white to light yellow clear liquid	Water white to light yellow clear liquid
pH, (5%w/w in DI water)	5.0 - 7.0	5.0 - 7.0
Density (lbs/gallon)	8.9 - 9.0	8.9 - 9.0
Specific gravity	1.05 - 1.07	1.05 - 1.07
Pour Point	>-20C	>-20C

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Revision: New

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Storage and Handling

Storage At low temperatures OBD-1 and OBD-2 will thicken but is still pourable. If there are concerns about product homogeneity when cold warm the product to at least 0 to 10C and mix before using.

Handling Use appropriate personal protective equipment when working with ProFlush OBD-1 and OBD-2. Do not get into eyes, on skin, ingest or inhale mist generated during the use of the product. Try to prevent the generation of mist 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 13.5ppg diesel based OBM a series of rinse off and compatibility tests were conducted using ProFlush OBD-1 and OBD-2:

ProFlush OBD-1, %w/w	Rinse off % @ 180°F	Viscosity @ 180°F	ProFlush OBD-1, gal per barrel
6.1	Not tested	15	
4.3	Not tested	21	
2.2	96	38	1.00
1.6	92	Not tested	0.73
1.2	99	Not tested	0.55
0.74	65	Not tested	0.34

ProFlush OBD-2, %w/w	Rinse off % @ 180°F	Viscosity @ 180°F	ProFlush OBD-2, gal per barrel
6.1	Not tested	Not tested	
4.3	Not tested	13	
2.2	96	Not tested	1.00
1.6	98	Not tested	0.73
1.2	80	Not tested	0.55
0.74	94	Not tested	0.34

Viscosity was measured on a 1:1 mixture of OBM plus pre-flush.



ProFlush OBD was developed in collaboration with Olive & Branch Merchandizing & Distribution LLC.

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