



ARC V-4™

Product Data Sheet

Delivering Tomorrow's Fluid Technologies Today

Description

A secondary viscosifier and rheological modifier for the oilbase aphron system.

ARC V-4™ is a rheological modifier which quickly enhances low shear rate viscosity (LSRV) properties for the non-aqueous aphron fluid technologies. Good LSRV properties combined with non-aqueous base fluid aphrons can be used to reduce formation damage, lost circulation, promote borehole stability and eliminate bridges, fill and barite settling.

ARC V-4™ is normally used as an adjunct to **ARC V-3™**. When mixed with oils or oil base muds, it functions to stabilize non-aqueous base fluid aphrons. Addition of **ARC V-4™** in non-aqueous fluids results in LSRV invasion control properties to promote enhanced performance of non-aqueous drilling, workover and completion fluids. Where **ARC V-4™** is used to help stabilize non-aqueous aphrons, fluid loss and formation invasion is dramatically reduced. **ARC V-4™** can be used in non-aqueous aphron fluid technologies fluids with excellent results in drilling highly permeable, low-pressure depleted zones.

Properties

Form:	Powder
Color:	Tan
Bulk density:	Compacted 53.9, Uncompacted 40.7 lbs. per ft ³
Specific gravity:	1.4 - 1.7 SG
pH: (5% in water)	ND
Solubility:	Insoluble in water, Dispersible in oils

Application

ARC V-4™ LSRV in the oilbase aphron system.

ARC V-4™ rheological modifier is recommended in concentrations of 1.0 - 5.0 pounds per barrel for use in most oils or synthetics. Lower concentrations may be effective where it is used to enhance LSRV in OBM or SBM. **ARC V-4™** can be added directly to the oils or OBM through a mud hopper. Although **ARC V-4™** readily yields in most non-aqueous fluids, care should be taken to add **ARC V-4™** slowly. **ARC V-4™** will continue to yield for several hours, use care to avoid over treating. **ARC V-4™** is compatible with most non-aqueous fluids including crude oil, diesel, mineral oil, vegetable oil and synthetics. It is also effective in oil base muds (OBM) and synthetic base muds (SBM).

Advantages

ARC V-4™ is a multi-benefit additive.

- Excellent hole cleaning and suspension
- Imparts non-aqueous aphron stability
- Invasion control
- Aids lost circulation prevention
- Reduces stuck pipe potential
- Enhances drilling and workover operations

Handling and Storage

* Refer to Material Safety Data Sheet . . .

ARC V-4™ is an environmentally safe dry powder. See the Material Safety Data Sheet for more detailed information concerning storage, handling, transportation, disposal and safety requirements.

Packaging

Specialty packaging is available . . .

ARC V-4™ is packaged in special 50 lb plastic containers designed to keep the product moisture free.

Questions & Answers

ARC Fluid Technologies, LLC “Offering You Tomorrow’s Solutions Today”

If you would like to know more about the ARC Aphron Fluid Technologies and how it can improve your well performance please contact us at:

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