



AlphaZyme[®] D400 PB / D409 PB

From Complus Trading North America LLC

Usage Instructions

AlphaZyme D400 PB and AlphaZyme D409 PB High Temperature are microemulsion/ nano particle products designed and formulated with co-solvents and surfactants to enhance the removal of polymers fluids and improving water floods by reducing surface tension, breaking down PHPA and changing producing rock from oil wet to water wet. These products also have an oil enhancing enzyme built to release oil imbibed in the rock.

These products deliver superior water wetting characteristics in both carbonate and sandstone reservoirs. The result is a more efficient stimulation, with residual wetting, that enhances the performance and life of an oil or gas well and its longevity.

The AlphaZyme D400 PB and AlphaZyme D409 PB (Polymer Breakers) are products developed to break up polymer damage in formations. This damage can be caused by previous water flood applications of polymer and also frac damage caused by polymer. AlphaZyme D400 PB (Polymer Breakers) are special nano surfactant with added nano particles. AlphaZyme D409 PB is effective for API gravity values between 9 a 24, while AlphaZyme D400 PB is effective for API gravity values over 24.

Product Dilution

AlphaZyme D400 PB / D409 PB is used to enhance water flood for oil recovery at .75 to 1 GPT treatment rates. If Diluted in RO water 50%, it can be used to treat at 1.5 to 2 GPT (Gallons per Ton).

AlphaZyme D400 PB / D409 PB can also be used in frac application of new or stimulation of older wells. It is to be added into the frac fluid at .7 to 1 GPT and can be used at a high treatment level of 4 GPT. This product can be used at 301C/575F down hole for 60 days without failure of Surfactant performance.



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Specific Gravity: 1.026 Appearance/Odor: Amber/Alcohol Odor

Flash Point: 2.05°F pH: 6 to 8

AlphaZyme D400 PB AlphaZyme D400 PB / D409 PB High Temperature are recommended at a loading of .75 to 1.5 GPT in fracturing fluids. Do not allow to touch active acid in the formation. It is suggested to always run a compatibility of fluids. AlphaZyme D400 PB / D409 PB High Temperature are available in 55 gallon drums and various totes or bulk.

Important Notes

Note: *In reviewing well stimulating programs always consider the review of the well's core analysis data to understand each well's Clay content within the formation. If Clay is found in the Formation, then a 2 to 3% KCL (Potassium Chloride) should be used as a dilution with the water volume to prevent most Clays from swelling and inhabiting the oil flows. In cases where high levels of Smectite are found in the well's formation (Volumes Greater than 8%), then use our products are best used in conjunction with PHPA, or displaced with Nitrogen or CO₂, during the stimulation process.*

Note: *Each product above will change the formation's rock from Oil Wet to Water Wet or are offered in specific products that will change the rock from Oil Wet to Water Wet.*



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