

Rapid EnerFlow™ 454

Online Pipeline Cleaner - Corrosion Inhibitor

Description:

Rapid EnerFlow 454 is a unique chemical cleaning product with hydrophobic / hydrophilic properties designed for continuous online cleaning applications. The product is very effective as a penetrant and dispersant for removing solids within oil & gas flowlines, oil & gas gathering lines and main transmission pipelines. The product also demonstrates corrosion inhibiting properties. The Rapid EnerFlow 454 is proven effective in removing deposits of iron sulfide, certain scales, sand and hydrocarbon from pipeline and oil & gas handling equipment. The functional additives within Rapid EnerFlow 454 are oil soluble and stable at temperatures up to 650°F. The product is non-ionic and is stable in a broad range of brine salinity with no adverse affects on product performance. The product is non-emulsifying and will aid in the separation of water from the oil phase.

Physical Properties:

Appearance	Amber Liquid
Odor	Light Petroleum
Specific Gravity	0.88 @ 60° F (15.6° C)
Density	7.35 lbs./gal.
Flash Point	> 140° F (60° C)
pH	6.5 - 7.5 (100 ppm in water)
Solubility	Oil Soluble Water Dispersable

Application Data:

Rapid EnerFlow 454 may be applied in either a batch or continuous injection method, or in a combination of a batch followed by a continuous injection. In severely contaminated systems it is recommended that a continuous injection be applied for a period of time prior to any batch application. In lines that are considered to contain only minor contamination, or that have been recently cleaned by batch pigging program, a low level continuous or periodic batch method is recommended. The cleaning action of Rapid EnerFlow 454 will work to effectively remove gross contamination in a way that does not disrupt continuous system operations.

For gas line applications apply at continuous injection at a rate in a range of 1 pint to 2 quarts per million cubic feet of gas, or at a rate to achieve a residual liquid concentration of 240 ppm to 1000 ppm. The estimated condition of any oil or gas line should direct application rates. A trained Rapid Energy Services technical representative is available to assist in determining the optimum treating rate.

1424 S. Hugh Wallis Road | Lafayette, LA 70508 • Tel: 337.291.2778 | Fax: 337.291.2781

Recommendations given in this bulletin are based on tests believed to be reliable. However, the use of the information is beyond the control of Rapid Energy Services, LLC and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.



Rapid EnerFlow 454 may be used upstream of oil pumping and natural gas compression stations. Residual amounts of Rapid EnerFlow 454 entering gas compression equipment works as an effective antifoulant by cleaning compressor discharge valves of possible iron sulfide or hydrocarbon buildup. The product helps to reduce costly system shutdown due to compressor fouling.

Shipping and Handling:

The Rapid EnerFlow 454 is an industrial chemical and should be handled only by those individuals who have read and are familiar with the precautions provided for in this product's Material Safety Data Sheet (MSDS). The product is shipped in DOT approved 55-gallon drums, Intermediate Bulk Containers (IBC's) or in bulk truck transport.