

Corrosion Inhibitor KMA034C

1. Introduction

KMA034C is quinoline quaternary ammonium salt, acetylenic alcohols, 2-benzoylallyl alcohol, and fatty alcohol polyoxyethylene ether based and the mixture in aqueous alcohol solvent system. It has excellent performance even at bottom hole temperatures (BHST) up to 400°F, and the higher temperature the more stable it performs.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Health Hazard	Physical Hazard	pH
KMA034C	Dark brown liquid	0.92-0.97	Soluble	Mucosa, eye and skin	None	3.0-7.0

3. Chemical Properties and Application

KMA034C is a high concentration acid corrosion inhibitor, which can be used in 5% to 28% HCl solutions, gelling acid, crosslinked acid and mud fluid systems, and with low dosage ratio. KMA034C performs excellent dispersibility in water and acid fluids, resulting in good inhibitor distribution and protection.

Organic acid-based intensifier is recommended to enhance the protection when applied temperature higher than 350°F. Intensifiers such as formic acid, formamide or potassium iodide is helpful for lower dosage ratio and high temperature.

4. Treatment

The recommended concentration range is 2 to 35 Gal/1,000 Gal (2 to 35 L/m³) of the total acid blend. Concentration is dependent on acid type, strength, bottom hole temperature, contact time, and additional additives. By adding KMA034C with the water during the loading operation, the product can be better dispersed in the resultant acid solution.

5. Packaging

KMA034C is packed in 55 gallons HDPE drums or 265 gallons HDPE totes. Keep it away from extreme conditions such as places near flames or direct sunlight.