

Corrosion Inhibitor KMA044

1. Introduction

Destructive reactions between metals and acids cause serious corrosion problems in acidizing operations. Corrosion inhibitors are generally required in acids to minimize these destructive reactions without introducing adverse effect on reactions between acids and formations.

KMA044 is blend of corrosion inhibition immediate and solvent/surfactant package in order to control the corrosion and pitting problems between various acids such as straight hydrochloric acids and mud acids and metals such as C95 and N80 tubulars.

2. Physical Properties and Hazards

Additive	Form	Specific Gravity	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KMA044	Dark Red to Brown Liquid	1.03-1.08	Soluble	>93	Eyes, Skin	None	0-3

3. Chemical Properties and Application

KMA044 contains no propargyl alcohol, which makes it environmentally friendly. KMA044 disperses very well in straight HCl and mud acids, resulting in good inhibitor distribution and tubular protection.

KMA044 can be used at temperatures up to 325°F for 20% straight HCl. The temperature limit can be increased by using corrosion inhibitor aids with KMA044. KMA044 is compatible with most inhibitor aids such as organic acids and metal halides at high temperature.

KMA044 is not suitable for emulsified acid systems. It contains special surfactants that can disrupt the stability of emulsified acids.

4. Treatment

The recommended concentrations range from 1 to 40 Gal/1,000 Gal (1 to 40 L/m³) of the total acid blend depend on acid type, strength, bottom-hole temperature, contact time, and other additives in the acids.

5. Packaging

KMA044 is packed in 55 gallons HDPE drum or 265 gallons HDPE IBC tank.

Keep it away from extreme conditions such as flames or direct sunlight. Store at temperatures lower than 30°C.