

Corrosion Inhibitor KMA054

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.

KMA054 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
KMA054	Dark Red Liquid	1.00-1.05	Dispersible	72	Eyes, Skin	Fire	N/A

3. Chemical Properties and Application

KMA054 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.

KMA054 provides corrosion protection in straight HCl, HCl-HF blends and emulsified acids (EAT) at temperatures up to 350°F. Upper temperature limit can be increased if inhibitor aids such as organic acids and metal halides are used together with KMA054.

KMA054 is particularly effective for use in emulsified acid systems (EAT). It contains special surfactants that enhance the stability of emulsified acid and reduce the corrosion rate and pitting index.

4. Treatment

The recommended concentration ranges from 1 to 40 gal/1,000 gal (1 to 40 L/m³) of the acid blend depend on acid type, strength, bottomhole temperature, contact time, and other additives in the acids. KMA054 is easily dispersed in mix-water and base acids in field operations.

5. Packaging

KMA054 is packed in 55 gallons HDPE drum or 265 gallons HDPE IBC tote.

Keep it away from extreme conditions such as flames or direct sunlight. Store at temperatures from 5°C to 30°C.