

Corrosion Inhibitor KMA044

1. Introduction

KMA044 is a quaternary ammonium based surfactant, a synergistic blend of solvents, and a highly effective dispersion package that enables it to inhibit corrosion in all hydrochloric (HCl) and HCl-hydrofluoric (HCl-HF) acid up to 392°F. This corrosion inhibitor can be used for mild steel to very exotic tubulars.

2. Physical Properties and Hazards

Additives	Form	S.G.	Water Solubility	Health Hazard	Physical Hazard	pH
KMA044	Dark red to dark brown liquid	1.03-1.08	Soluble	Eyes, skin	None	0-3

3. Chemical Properties and Application

KMA044 contains no propargyl alcohol, which makes this product environmentally friendly. This product disperses well in acid solutions, resulting in good inhibitor distribution and pipe protection. It can provide acid-corrosion protection for as long as 24 hours. KMA044 provides corrosion protection in all HCl and HCl-HF blends up to 392°F. It can increase the upper temperature limit by use of acid corrosion inhibitor intensifiers, and is compatible with intensifiers such as organic acids, metal halides, and antimony compounds for higher 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 concentration range is 1 to 40 Gal/1,000 Gal (1 to 40 L/m³) of the total acid blend. Concentration is dependent on acid type, strength, bottomhole temperature, contact time, and additional additives.

5. Packaging

KMA044 is packed in 55 gallons HDPE drum or 265 gallons HDPE IBC tank. Keep it away from extreme conditions such as places near flames or direct sunlight. Store at temperatures lower than 30°C.