



# Cola®Solv TES-M (ME)

Secondary Emulsifier for Water-in-Oil Emulsions

**DESCRIPTION** Quaternized Alkyl Imidazoline

**Cola®Solv TES-M (ME)** is a low HLB (ca. 6), high-performance emulsifier and wetting agent designed to increase emulsion stability in oil-based drilling fluids. Based on Maleniated amidoamines of natural fatty acids and polyamines in base oils, it serves as a workhorse secondary emulsifier for invert-emulsion drilling fluids. Cola®Solv TES-M (ME) demonstrates improved emulsion stability over traditional emulsifiers by reducing high-pressure high-temperature (HPHT) fluid loss. It can function as an emulsifier to offer the fluid stability in the static aging at high temperature 325°F as well as a wetting agent in the high-performance oil-based drilling fluid system. Typically used in conjunction with primary emulsifiers, it ensures excellent emulsion stability, oil wetting of drill solids, and reduction of HPHT fluid loss.

Upon neutralization with alkali hydroxides or alkanolamines, Cola®Solv TES-M (ME) turns into an anionic emulsifier. In addition to its extensive applications in oil and gas, it can also be used as a primary or secondary emulsifier in soluble oil and semi-synthetic metalworking fluids.

## BENEFITS

- Has ~47% bio-content
- Secondary emulsifier for oil-based drilling muds
- Improves the emulsion thermal stability and contamination resistance of oil-based muds
- Effective and thermally stable in a broad range of application temperature (up to 325 oF).
- Effective at low concentrations
- Typically used in conjunction with primary emulsifiers for optimal emulsification capability
- Compatible with other oil-based and synthetic mud additives and systems
- Offers corrosion protection power



## APPLICATIONS

- Oil-based drilling muds
  - The typical usage is 3-6 ppb (pound per barrel). The recommended usage ratio of primary emulsifiers to ColaMul 1200 is 3:1 to 2:1, but a pilot test is required for optimal results
- Semi-synthetic metalworking fluids

## TYPICAL PROPERTIES

Appearance	Clear Liquid
pH (5% Aqueous)	7 – 9
Total Amine Value	20 – 25
% Solid	78 – 82

## STORAGE / HANDLING

Cola®Solv TES-M (ME) should be stored in sealed containers at temperatures not exceeding 40-90°F (4-32°C). Shipped in totes (net weight 911.7 kg). Typical shelf life is 24 months from date of manufacture. Safety Data Sheets may be found at [www.colonialchem.me](http://www.colonialchem.me).

