



Emulsion based drilling fluids have emerged as an important class of drilling fluid systems, which have gained a significant interest in modern drilling operations. Oil- in-water (O/W) emulsion mud is widely used for low pressure and depleted oil and gas reservoirs.

The stabilization of the emulsion systems is achieved with the help of suitable surfactants. The polymers and bridging agents are used to control the rheological and filtration properties of the drilling fluid systems.

It is also important to pay attention to the environmental and waste disposal considerations of these drilling fluids at the drill site. So different Emulsions has designed for these purpose.

**ICC-DME** is a mixture of special emulsifying agent which when used in drilling mud, gives stable emulsion of oil in water. Water used for drilling mud may be fresh, potable, salty or sea water.

**ICC-DME** is an emulsifier which is applied to water base drilling mud when other convectional emulsifiers fails to emulsify diesel fuel in mud texture. It provides a uniform, stable and durable emulsion in all tough conditions of oil well drilling.

### Typical Physical Properties

CHARACTERISTIC	STANDARD	Test Method
Physical appearance	Yellow liquid	----
pH (5% solution)	7-8	ASTM D-1172
Sp.Gr @25 °C (g/ml)	1±0.02	ASTM D-1298
Pour Point (°C)	< -5	ASTM D-97
Flash Point (°C)	> 90 °C	ASTM D-92
Solubility in Water	Soluble	----



### Advantages

- The use of **ICC-DME** can substantially enhance drilling efficiency and completion quality.
- **ICC-DME** reduces the formation damage and allows trouble-free drilling under abnormally low reservoir pressure conditions.
- **ICC-DME** increase production rates above those planned
- **ICC-DME** allows the use of conventional drilling equipment that does not require the time and cost of rig reconstruction, as is required in the case of oil-based mud (OBM).
- **ICC-DME** is suitable for low porosity and permeability conditions.

### Features

- It creates excellent emulsion drops dispersion and system stability.
- It gives stable emulsion of oil in water.
- It provides a uniform, stable and durable emulsion in all tough conditions.

### Packaging and Storage

**ICC-DME** is packaged in 220 Lit polyethylene or steel drum. Customized packaging is also available on request.

**ICC-DME** store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practice s regarding palletizing, banding, shrink-wrapping and/or stacking.

### Shelf Life

**ICC-DME** has shelf life of at least six months from the data of manufacture when stored in the original sealed containers in a cool and dry place.

### Safety and Handling

**ICC-DME** must be handled as an Industrial chemical, wearing protective equipment and observing the precautions as mentioned in the MSDS.