

# LHEC-104™

## Liquid Hydroethyl Cellulose

Oil & Gas Drilling Fluids / WBM



**LHEC-104™** is a stable dispersion of hydroxyethyl cellulose in mineral oil.

**LHEC-104™** is 40% active by weight high-quality HEC product.

**LHEC-104™** is primarily used to provide viscosity in clear brines in work-over operations; HEC will viscosify all freshwater drilling fluids of any salinity and solids content.

**LHEC-104™** is effective as a sweep when poured down drill-pipe or work string.

**LHEC-104™** does not settle or experience oil separation. This allows for efficient quick mixes and sweeps without the need for elaborate and expensive mixing equipment. Also, more accurate metering of active products results in improved fluid performance down hole.

### ADVANTAGES

- Extremely stable suspension
- Highly effective viscosifier
- Works well at any salinity
- Increases carrying capacity of fluid
- Easy to handle and mixes well in low shear rate environments
- May be poured down drill pipe
- No “fisheyes”
- No preservative needed

### TYPICAL, PHYSICAL

Flash Point.....	189°F (87°C) TCC, ASTM D56
Pour Point .....	- 36°F
Specific Gravity .....	0.99 – 1.07
Density.....	8.26 – 8.92
Color.....	Tan, Off White

### MIXING/TREATMENT

- Low-shear mixing equipment is sufficient to provide thorough dispersion and homogeneous mixtures.
- Liquid HEC can be added to the mud system by slowly dripping in the active system or through the hopper.  
The amount of application will vary according to the job requirement.
- For a typical treatment to obtain Marsh funnel viscosity of 35-40 sec/qt, mix 5 gal. per 20 barrels of fluid.

### PACKAGING

- 5 gallon pails (36 per pallet)
- IBC (totes)
- 275 Gal

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