

Snap-On MLE Insulator

One of the leading failure modes in electric submersible pumps (ESPs) is thermal damage to the motor lead extension (MLE). Traditionally, the MLE is banded directly to the pump housing. Under gas lock conditions, tungsten carbide bearings within the pump generate extreme heat, transferring it to the housing and ultimately, to the MLE. The direct thermal exposure compromises cable insulation integrity and can shorten ESP run life.

Republic Oil Tools has developed the Snap-On MLE Insulator, a patent-pending solution manufactured from high-performance PEEK polymer. The insulator is designed to provide a thermal and mechanical barrier between the MLE and pump housing, significantly reducing the risk of cable degradation.

Key Features:

- Snap-On Design – Quick Installation
- Strategic Placement – Installed between abrasion resistant bearings along the pump housing
- Thermal Barrier – PEEK construction withstands extreme downhole temperatures
- Durability – Chemically resistant and mechanically robust

Benefits:

- Extends MLE service life by reducing thermal stress
- Improves ESP reliability and run time
- Minimizes costly workovers from cable failures
- Field-friendly installation

For more information, please visit
www.republicoiltools.com

