

# E-Motors

In electric vehicles (EVs), magnet wire is a critical component in the **electric motor**. It forms the windings of the motor's stator and rotor, enabling the conversion of electrical energy into mechanical motion.

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Key Requirements for polymer coating for magnet wires in e-motors ([customer specific](#)):

1. Extrusion on round or shaped profiles with good concentricity and thickness control
2. Excellent dielectric strength at temperature
3. Thermal endurance up to 240°C
4. Chemical resistance to coolants, solvents, and varnishes
5. Extreme abrasion resistance during insertion, bending and wrapping for coil windings
6. Favorable adhesion to metals