Liquid Quenchant Fluidized Bed Technology (LQF) from Thermcraft is the Environmentally Friendly Replacement for Lead Quenching and Sand Fluidized Bed Wire Quenching of Medium and High Carbon Steel Wire.

**LQF Benefits**

- No lead (Pb) drag-out, no sand drag-out.
- Lower initial investment, low maintenance costs, low operating expenses.
- The LQF system is easily adjustable for different diameters, speeds and types of carbon steel wire.
- Enhanced pearlitic structure in medium and high carbon steel wire.
- An operator friendly solution to the environmental hazards of molten lead, lead dust or sand recuperation in fluidized beds.
- The LQF system produces less heat, is easily accessible, and the environment is neat and clean.
- There are no hazards of ecological and toxicological exposure resulting in adverse physiological outcomes.
- LQF technology yields quality improvements at a low operating cost, while producing less scrap, rework and rejected material.
- Liquid Quenchant Fluidized Bed Technology’s high heat transfer rate results in a fine pearlitic microstructure more difficult to obtain using other techniques particularly when higher strength super-, ultra- and mega-tensile steels are processed.
- The LQF can be installed without removing an existing Pb bath.

**Property Enhancements**

- Patented tensile strength
- Improved work hardening rate
- Increased ratio of pearlitic structure
- Pb-free surface
- Fine draw ability
- Fatigue resistance