

Wire Quenching Has Gone Green

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



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