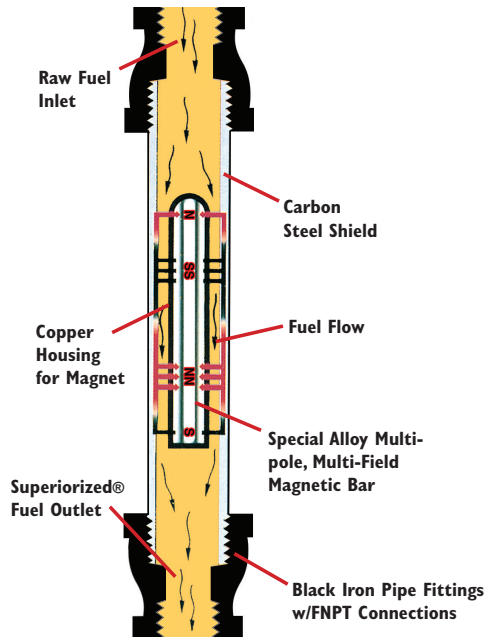


## SUPERIOR SOLUTION

FUEL ACTIVATOR: UP TO 7% REDUCTION

### Cut Away of the Superior Fuel Activator



**Save Energy:** As gas or liquid fuel passes through the Superior Fuel Activator, it is exposed to a series of reversing polarity, alternating magnetic fields, which increases its kinetic activity. This treatment process also reduces surface tension of any moisture present, which allows it to mix better with the fuel. The end result is a more complete and cleaner burning of the fuel, which creates a hotter flame, thus increasing efficiency of your equipment and reducing your fuel usage by as much as 7%, as well as reducing pollutants in the exhaust.

**Protect Your Appliances & Burners:** The Superior Fuel Activator also helps to keep carbon soot and other deposits from building up in your appliances and burners, which will reduce maintenance problems and extend equipment life.

**Easy To Install:** The Superior Fuel Activator may be installed in the supply line to each individual boiler, water heater, furnace, gas range, etc. Works on any equipment that uses gas or liquid fuel.



### Superior Manufacturing Corporation

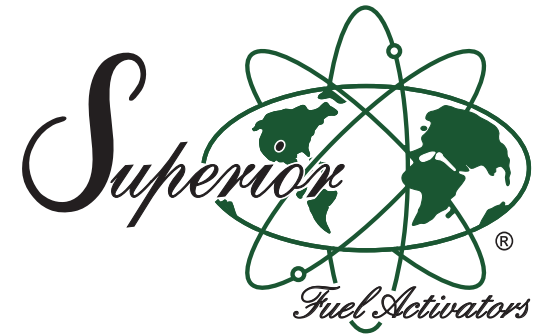
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# Reducing Energy Consumption: Magnetic Treatment of Fuel

## The Problem of Natural Gas Combustion

- Depletes fossil fuel resource • Produces CO, CO<sub>2</sub>, and many other pollutants • Degrades health
- Contributes to global warming

## LTV Pilot Project Summary

**Facility:** LTV Steel Company's #2 Tin Mill

- produced 384,000 tons of finished product during year of study

**Magnetic Unit:** Superior Fuel Activator

- installed on #5 portable anneal furnace

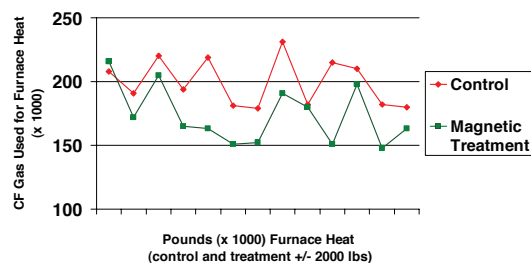
**Period of Study**

- control, 9 months; treatment, 1 year
- 3,373 cf/hr average flow rate of natural gas during control and treatment periods

## Energy Savings

- 33 cycles of fuel usage data analyzed
- significant difference between control and magnetic treatment periods
- overall reduction of 7% in natural gas usage
- annual cost savings of \$120,000 (at 1999 natural gas prices) for the facility's continuous annealing line and (5) portable annealing furnaces
- payback period of 1.3 years (based on 1999 prices) would be significantly shorter in today's natural gas market

LTV Pilot Project Natural Gas Usage  
Comparison, Control vs. Magnetic Treatment



- Ingrid M. Richie, Ph.D.  
School of Public & Environmental Affairs

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## INDUSTRIAL APPLICATIONS:

