

## Hydrocarbon and Chemical Processing

**Project Name:** Ethylene Furnace

**Location:** Longview, Texas

### Furnace Information

**Furnace Type:** Ethylene Cracker

**Fuel Type:** Natural Gas

**Substrate:** IFB and Ceramic Fiber Modules. No Process tubes were coated.

**Operating Temp:** 2100 °F (1149°C)

**Background:** The Emisshield® Products were applied to the ethylene furnace in April 2006. The customer evaluated energy savings and production increases because of the application of the Emisshield® Products. The owner agreed to release energy saving data, unit temperature data but no detailed production data because of "confidentially".

### Application Information

In this project Emisshield was applied only to the combined IFB and ceramic fiber modules. Two different Emisshield Products were utilized.

### Emisshield® Benefits Reported by Owner:

- Fuel Savings of 6%
- Production Increase of 8%
- Customer realized an ROI of 3 months.
- The unit shell temperature was 250- 300°F but was reduced to < 90°F after application of Emisshield.
- Life of the ceramic fiber was increase significantly.
- Additional units were coated.