CASE HISTORY

Emisshield® Application

Metal Production

Project Name: Radiant Tube

Location: Oxelösund, Sweden

Tube Information

Facility Type: Integrated Steel Mill

Fuel Type: Natural Gas

Substrate: Chrome / Nickel Tube

Application Information

The tube was shipped to an Emisshield® preferred installer in Sweden for the application. The tube was cleaned with a light grit blast and then coated with Emisshield® on the outside surface. The tube was then heated to 800 °C to be sintered and then returned for installation.

Emisshield® Benefits

- Exit gas temperature was reduced from 500 deg C to 430 deg C
- Increased thermal flux across tube to product
- Ability to outperform more exotic radiant tube types
- Reduce hotspots and provides uniform temperature profile
- Reduction in thermal oxidation of the tube
- Tube will run at a lower temperature and increase operational life.
- Reduce down time of furnace for radiant tube replacement

Radiant Tube coated with sintered Emisshield® Product

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