

KLAY EnerSol's I-Cover 3M Nextel products provides an effective and easy to install solution for industrial insulation requirements. Engineered to withstand extreme operational conditions whether it be the interface between the external and internal of a furnace or inside the furnace itself. Designed and fabricated by KLAY EnerSol, our Nextel based product can be made into any shapes from as simple as a pipe section insulation to as complex as a multi-tube furnace opening seal.



Radiant Heat Reflector

PROBLEM

- Client was experiencing secondary cracking in their Catalytic Propane Dehydrogenation process heater. Detailed analysis determined that the cause was higher radiant heat flux in specific regions of the furnace

CHALLENGES

- Due to the age of the tube, conventional way of heat shielding (weld of anchor for fixing the ceramic fiber) was not preferable.
- Stainless steel wire fastener not reliable at extreme temperature application due to thermal expansion.

SOLUTIONS

- KLAY EnerSol supplied pre-fabricated I-Cover Nextel that require no mechanical means of fixing the insulation.

OUTCOME

- Increased uniformity of heat flux on the process tubes.
- Reduced excessive heat flux and secondary cracking.
- Minimize furnace downtime



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