

Case Study | Chemical plant in Houston, Texas

Thermocouples are still reading with extreme accuracy and without a single failure.



Problem:

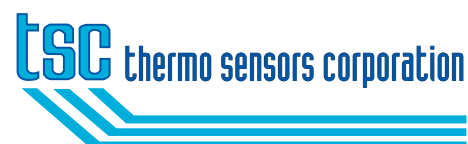
Tube skin thermocouples on 9 large ethylene furnaces were experiencing a 40-50% failure rate within 6 months of installation. They were also seeing large drift patterns of those thermocouples before they failed.

Solution:

Thermo Sensors fabricated, for test, our proprietary “K” thermocouple to the quality standards for insulation resistance testing that would continue to meet ASTM e608 (500vdc @ 1 Gigohm). Then, follow an established tube skin thermocouple installation procedure.

Result:

Since then, we have installed duplicate sets of 16 each “K23” Thermo Sensors tube skin thermocouples in 8 of the heaters (128 total). To date, the thermocouples are still reading with extreme accuracy and without a single failure.



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