

Furnace Tracker[®] Kiln Tracker[®]

Industrial Thermocouples – Designed and Tested to Last Longer with the Highest Accuracies

- Various thermocouples available for high temperature applications in the heat treatment and ceramic industries
- Specified to ASNI MC96.1 Special Limits of Error $\pm 0.4\%$ or $\pm 1.1\text{ }^{\circ}\text{C}$ ($\pm 2\text{ }^{\circ}\text{F}$) whichever is greater
- Type N can be supplied for Furnace Survey applications
- Calibration services for AMS2750 and CQI-9 requirements



PA0710 Thermocouple



PA0760 Thermocouple



PA0370 Thermocouple



PA1580 Thermocouple

FURNACE THERMOCOUPLE RANGE

Type K 1.5 mm (0.05 in) diameter mineral insulated

- For all general furnace profiling applications
- Nicobel sheath protects against electrical “noise” and furnace atmosphere

Probe insulation material	Nicobel “D”
Maximum operating temperature	1250 °C (2282 °F)
Termination	Miniature plug
Hot junction	Insulated

Type K 3.0 mm (0.1 in) diameter mineral insulated

- For high temperature steel re-heat applications
- Larger diameter less prone to shunt errors, while retaining flexibility for setup

Probe insulation material	Nicobel “D”
Maximum operating temperature	1300 °C (2372 °F)
Termination	Miniature plug plus PTFE tails
Hot junction	Insulated

Type K “Nextel” insulated

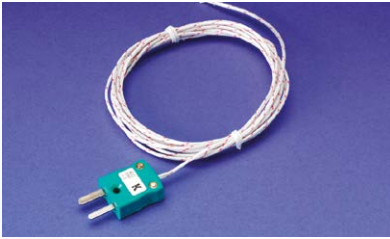
- Best for low temperature applications or where fast response from open junction is needed (e.g. TV tube “frit sealing”)
- No resistance to furnace atmosphere (e.g. carburizing), or electrical “noise”

Probe insulation material	Braided “Nextel” fiber
Maximum operating temperature	1000 °C (1832 °F)
Termination	Miniature plug
Hot junction	Open

Type N 2.0mm (0.07 in) diameter mineral insulated

- For furnace survey applications
- Type N is less susceptible to oxidation and in some circumstances can be re-used for surveys

Probe insulation material	Nicobel “D”
Maximum operating temperature	1250 °C (2282 °F)
Termination	Miniature plug
Hot junction	Insulated



PA0830 Thermocouple



PA0940 Thermocouple



PA0531 Thermocouple



PA0710 Thermocouple



PA1063 Thermocouple

Type K high temperature glass fiber insulated probes

- For use in auto windscreen forming applications
- Used in conjunction with probe kit CS2035

Probe insulation material	Glass fiber
Maximum operating temperature	Up to 700°C (1292°F)
Termination	Miniature plug
Hot junction	Open

Type K heavy duty PTFE insulated probes

- For use with pressure thermal barrier in 'wet' or dry autoclave applications

Probe insulation material	PTFE
Maximum operating temperature	Up to 265°C (509°F)
Termination	Standard plug
Hot junction	Insulated

KILN THERMOCOUPLE RANGE

- Specified to ANSI MC96.1; special limits of error $\pm 0.4\%$ or $\pm 1.1^\circ\text{C}$ ($\pm 2^\circ\text{F}$), whichever is greater
- "Noble" metal thermocouple assemblies not supplied

Type K 3.0 mm (0.1 in) diameter mineral insulated

- Flexible after high temperature operation
- Resists 'flashing' atmosphere in kiln
- For tunnel kiln applications, e.g. brick, roof tile, etc.

Probe insulation material	Nicrobel "D" sheath
Maximum operating temperature	Up to 1250°C (2282°F)
Termination	Standard plug
Hot junction	Insulated

Type K 1.5 mm (0.05 in) diameter mineral insulated

- Flexible after high temperature operation
- For roller hearth kiln applications, e.g. tiles, sanitary ware, etc.

Probe insulation material	Nicrobel "D" sheath
Maximum operating temperature	Up to 1250°C (2282°F)
Termination	Miniature plug
Hot junction	Insulated

Compensating cable for type R/S probes

- Supplied with R/S systems
- Connects to thermocouple junction box beneath kiln car
- Also available in type B

Probe insulation material	Glass fiber
Probe material	Copper vs copper/nickel
Maximum operating temperature	300°C (572°F)
Termination	Standard plug (large)

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Worldwide Service

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