

# Con-O-Clad® Mineral Insulated Metal Sheathed Thermocouple Cable



## High Performance Applications

Conax Technologies Con-O-Clad is manufactured using high performance/exotic alloys for critical applications where performance under extreme temperatures or severe environmental conditions is required.

We have over 50 years of experience in the design and manufacture of Con-O-Clad, and routinely produce metal sheathed thermocouple cable for the aerospace and power generation industries.

Con-O-Clad is produced to exacting standards controlled under our ISO 9001 and AS9100 Quality Management System. We use only the highest quality materials to ensure reliable and robust performance. Each completed lot of material undergoes strict quality assurance tests (electrical & dimensional) and is calibrated in our NIST Traceable Calibration Lab to ensure all requirements are met.

Please visit [www.conaxtechnologies.com](http://www.conaxtechnologies.com) to request more information.

Hastelloy is a registered trademark of Haynes International, Inc.  
Haynes 188, 214 and 230 are trademarks of Haynes International, Inc.  
Inconel and Monel are registered trademarks of the Special Metals Corporation group of companies.

## Specifications

### Sheath Materials:

- Inconel®, Monel® and other Super Nickel Alloys
- Haynes® 188®, 214®, 230®
- Hastelloy® C-276
- Tantalum
- Platinum-Rhodium

### Sheath Diameters:

- 0.039" - 0.250" (1 mm - 6.3 mm)
- Single and Duplex Constructions Available
- Triplex Construction (Consult Factory)

### Calibration Types:

- Types K, N, E and S, R, B
  - Standard or Special Limits per ASTM E230
  - Class 1, 2 or 3 per IEC 584
- Type C
  - Standard Limits per ASTM E230

### Insulation:

- High Purity (99.4% Min) Magnesium Oxide (MgO) per ASTM E1652
- Hafnium Oxide (i.e. Hafnia) for selected high temperature applications

### Special Applications:

- Compliance to ASTM E585 and E2181 Available
- Supplemental NDT Testing Available
- Can be supplied in a continuous length (coil) or cut to specific lengths and packaged for short or long term storage



Ideas. Solutions. Success.

## Pressure & Vacuum Sealing Capabilities



Conax Technologies sealed feedthroughs and compression seal fittings have proven to be the industry leaders in quality and performance. We are the originators of soft sealant technology that, when combined with mechanical compression, results in a remarkably secure and leak tight seal on wires, probes, and electrodes passing through a pressure or environmental boundary.

### Sealed Assemblies for:

- Probes/Sensors
- Thermocouples
- Electrodes
- Wires
- Optical Fibers
- Multiple Elements

## Temperature Sensing Technology



### Temperature Sensing Devices:

- RTDs
- Thermowells
- Transmitters
- High Temperature Thermocouples

Conax Technologies temperature sensors have proven their durability and reliability in a variety of high temperature applications. Our extensive knowledge of the science of temperature measurement and the physical properties of materials used for sheathing and insulation enables our engineers to recommend the most effective solutions to your application needs.

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