

BL619 Standard Thermocouple



The BL619 Standard thermocouple are measurement standards for temperature, featuring a simple structure, high accuracy, excellent physical and chemical performance, strong oxidation resistance at high temperatures, and excellent stability and reproducibility of thermoelectric potential.

It is commonly used as a reference standard to calibrate industrial thermocouples. All thermocouple wires and parts are specially cleaned and annealed before assembly.

KEY FEATURES

- Type S ranges from 0°C to 1300°C
- Type B ranges from 1100°C to 1500°C
- Gas Tight Assembly
- Premium Grade Wire
- Meets all ITS-90 requirements.

APPLICATIONS

- Reference standard for very accurate temperature measurements
- Comparative calibration in tube furnaces

SPECIFICATION

- Range: 0°C to 1300°C or 1100°C to 1500°C
- Stability: <3uV, <5 uV, <8 uV
- Long term drift: <0.5°C at 1210°C after 1-year typical usage
- Electrode size: 0.5mm OD x 1000m L
- Insulating tube type: High-purity alumina insulating tube

- Reference junction insulation size: 3.2mm OD x 550m L
- Hot junction protective tube material: Quartz
- Hot junction protective tube size: 7mm OD x 550m L
- Wire length: 1 meter
- Weight: 1kg

| P/N | Range | Stability | Thermoelectric Potential |
|---------|------------------|-----------|---|
| BL619-1 | 0°C to 1300°C | < 3uV | E(T _{Cu}): (10.575~10.588) mV E(T _{Al}): (5.858~5.863) mV E(T _{Zn}): (3.445~3.449) mV |
| BL619-2 | 0°C to 1300°C | < 5uV | E(T _{Cu}): (10.575~10.588) mV E(T _{Al}): (5.857~5.864) mV E(T _{Zn}): (3.444~3.449) mV |
| BL619-3 | 1100°C to 1500°C | < 8uV | E(1100C): (5.755~5.805) mV E(1500C): (10.059~10.139) mV |

SCOPE OF DELIVERY

- BL619 Standard Thermocouple
- Wooden carrying case

OPTIONAL ACCESSORIES AND SERVICE

- ISO17025 Calibration Certificate (P/N: CAL-619)
- Readout device

ORDERING MODEL NUMBER

- BL619-1: 0°C to 1300°C, stability < 3uV
- BL619-2: 0°C to 1300°C, stability < 5uV
- BL619-3: 1100°C to 1500°C, stability < 8uV