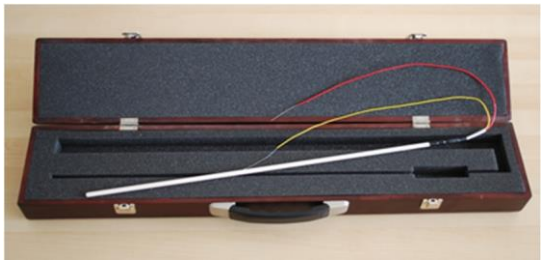
AM1210 Reference Standard Type S Thermocouple

AccuMac

HIGHLIGHTS

- ✓ **Affordable reference standard**
- ✓ **Type S**
- ✓ **Short term stability: ±0.2 °C at 1084.62 °C**
- ✓ **Temperature range: 0 °C to 1300 °C**



OVERVIEW

AM1210 Reference Standard Type S Thermocouple is made from reference grade platinum and platinum-rhodium alloy. It covers a temperature range of 0 °C to 1300 °C with short term stability of 0.2 °C all the way to Freezing Point of Copper (1084.62 °C). It is commonly used as reference standard to calibrate industrial thermocouples. All thermocouple wires and parts are specially cleaned and annealed before assembly. Every AM1210 thermocouple is fully annealed and tested again to meet the Tolerance criteria as specified in the table below.

SPECIFICATIONS

Temperature Range	0 °C to 1300 °C
Type	Type S: Platinum/10 % Rhodium vs. platinum
Long Term Drift	±0.6 °C at 1084.62 °C after 1 year typical usage
Tolerance (mV)	$E(t_{Cu})=10.575\pm0.015$ $E(t_{Al})=5.860+0.37(E(t_{Cu})-10.575)\pm0.005$ $E(t_{Zn})=3.447+0.18(E(t_{Cu})-10.575)\pm0.005$
Short Term Stability	±0.2 °C at 1084.62 °C
Diameter of thermocouple wire	0.5 mm
Sheath Material	Quartz or Alumina
Sheath Dimensions	OD: 6 mm; Length: 500 mm
External Lead Wire	S type thermocouple wire, 500 mm
Protective Carrying Case	Included

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CasCade When Temperature Matters