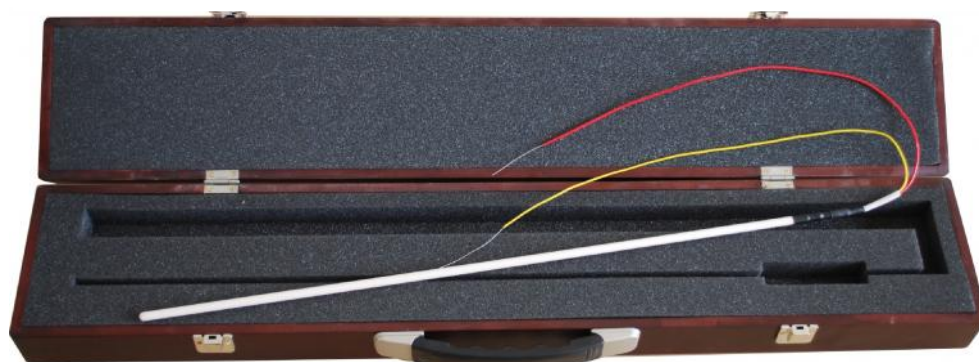


**HIGHLIGHTS**

- ✓ Affordable reference standard
- ✓ Type S
- ✓ Short term stability at  $\pm 0.2\text{ }^{\circ}\text{C}$  at  $1084.62\text{ }^{\circ}\text{C}$
- ✓ Temperature range:  $0\text{ }^{\circ}\text{C}$  to  $1300\text{ }^{\circ}\text{C}$

**OVERVIEW**

AM1210 Reference Standard Type S Thermocouple is made from reference grade platinum and platinum-rhodium alloy. It covers a temperature range of  $0\text{ }^{\circ}\text{C}$  to  $1300\text{ }^{\circ}\text{C}$  with short term stability of  $0.2\text{ }^{\circ}\text{C}$  all the way to Freezing Point of Copper ( $1084.62\text{ }^{\circ}\text{C}$ ). 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**

<b>Temperature Range</b>	$0^{\circ}\text{C}$ to $1300^{\circ}\text{C}$
<b>Type</b>	Type S: Platinum/10 % Rhodium vs. platinum
<b>Long Term Drift</b>	$\pm 0.6^{\circ}\text{C}$ at $1084.62\text{ }^{\circ}\text{C}$ after 1 year typical usage
<b>Tolerance (mV)</b>	$E(t_{\text{Cu}}) = 10.575 \pm 0.015$ $E(t_{\text{Al}}) = 5.860 + 0.37(E(t_{\text{Cu}}) - 10.575) \pm 0.005$ $E(t_{\text{Zn}}) = 3.447 + 0.18(E(t_{\text{Cu}}) - 10.575) \pm 0.005$
<b>Short Term Stability</b>	$\pm 0.2^{\circ}\text{C}$ at $1084.62\text{ }^{\circ}\text{C}$
<b>Diameter of thermocouple wire</b>	0.5 mm
<b>Sheath Material</b>	Quartz or Alumina
<b>Sheath Dimensions</b>	OD: 6 mm; Length: 500 mm
<b>External Lead Wire</b>	S type thermocouple wire, 500 mm
<b>Protective Carrying Case</b>	Included

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