

THERMOCOUPLE-MILLIVOLT GRAPH

- T=Copper vs. Constantan
- E=Chromel vs. Constantan
- J=Iron vs. Constantan
- K=Chromel vs. Alumel
- W=Tungsten vs. Tungsten 26% Rhenium (also known as Type G)
- C=Tungsten 5% Rhenium vs. Tungsten 26% Rhenium (also known as Type W5)
- R=Platinum vs. Platinum 13% Rhodium
- S=Platinum vs. Platinum 10% Rhodium
- B=Platinum 6% Rhodium vs. Platinum 30% Rhodium
- N=Nicrosil vs. Nisil
- P=Platinel

cation. The temperature range, EMF output, accuracy required, resistance to atmospheric conditions, pressure and shock are typical thermocouple systems for a given application.

The following technical information is intended to serve only as a guide for thermocouple selection. Any recommendation stated is based on past practices and experience, and no guarantees, implied or otherwise, are made as to optimum operation conditions.

Although some of these materials will operate at higher temperatures than shown on the chart, they represent what is generally conceded as the maximum reliable operating temperature.

Selection of the optimum type of thermocouple and auxiliary components for a pyrometric system is necessarily based on a number of variables or factors of the appli-

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