

WHEN LOWER MELTING POINT MATERIALS CANNOT BE USED, THE USE OF NOBLE AND REFRACTORY METALS ARE UTILIZED FOR ACCURATE TEMPERATURE MEASUREMENTS. ALL MTI THERMOCOUPLES IN THIS GROUP ARE PRODUCED UNDER THE MOST STRINGENT QUALITY CONTROL CONDITIONS. CHECKPOINTS AND TESTING ARE PERFORMED AT EACH CRITICAL STEP IN THE MANUFACTURING PROCESS.

THE FOLLOWING TABLES ARE USED TO OUTLINE THIS SPECIALIZED AREA OF TEMPERATURE MEASUREMENT. ADDITIONAL CUSTOMER REQUIREMENTS OFTEN CALL FOR COMPLIANCE TO VERIFICATION AND CALIBRATION PROCEDURES. PLEASE CONTACT YOUR MTI REPRESENTATIVE WITH YOUR PARTICULAR REQUIREMENTS.

TYPE S (PLATINUM - 10%, RHODIUM VS. PLATINUM)
TYPE R (PLATINUM - 13%, RHODIUM VS. PLATINUM)
TYPE B (PLATINUM - 30%, RHODIUM VS. PLATINUM -6% RHODIUM)

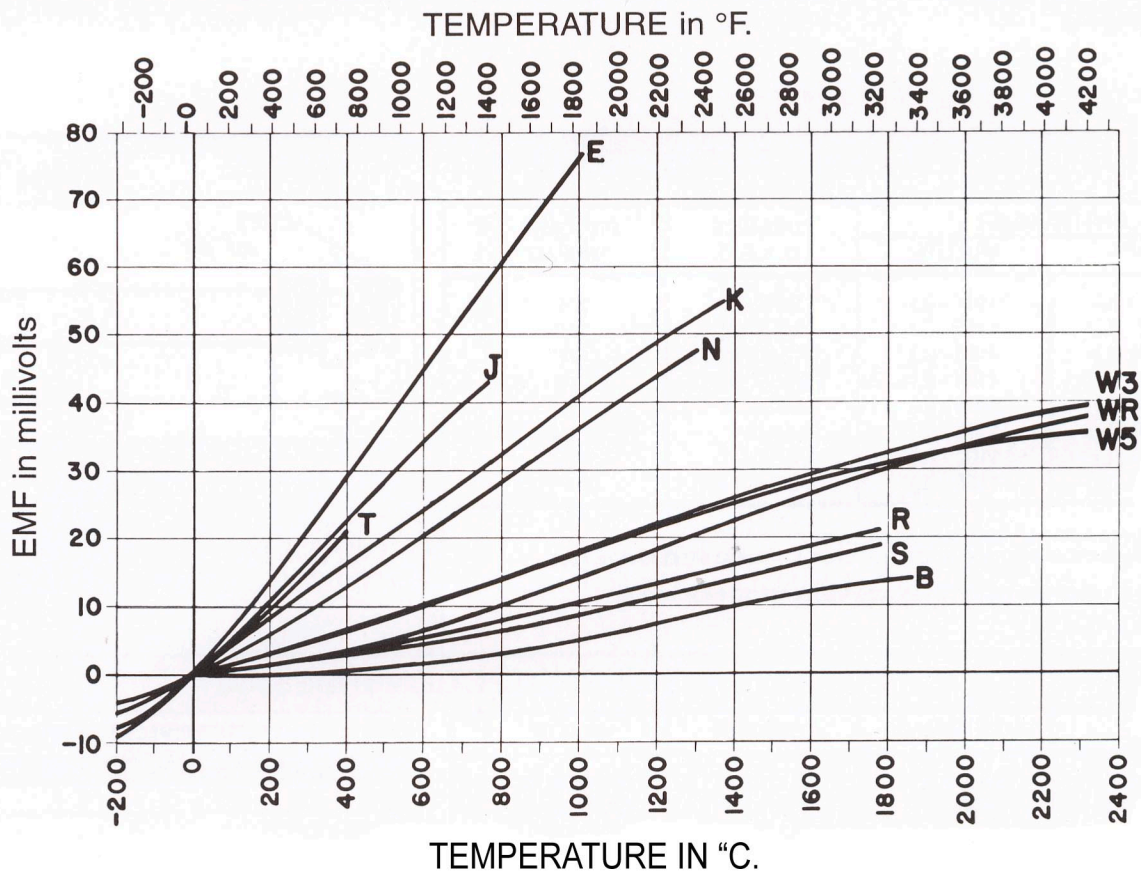
TYPE WR (TUNGSTEN VS. TUNGSTEN 26% RHENIUM)

TYPE W3 (TUNGSTEN 3% RHENIUM VS. TUNGSTEN 25% RHENIUM)

TYPE W5 (TUNGSTEN 5% RHENIUM VS. TUNGSTEN 26% RHENIUM)

PLATINUM ALLOY THERMOCOUPLES ARE ALL RECOMMENDED FOR USE IN INERT OR OXIDIZING ATMOSPHERES, OR FOR SHORT PERIODS OF TIME IN A VACUUM. EASILY CONTAMINATED, THESE ELEMENTS MUST BE PROTECTED FROM THE EFFECTS OF REDUCING ATMOSPHERES AND CONTAMINATING VAPORS. ALUMINA PROTECTING TUBES ARE RECOMMENDED FOR DIRECTLY CONTAINING PLATINUM ELEMENTS.

TUNGSTEN ALLOY ARE ALL RECOMMENDED FOR USE IN VACUUM, HIGH PURITY HYDROGEN, OR HIGH PURITY INERT ATMOSPHERES. VERY POOR OXIDATION RESISTANCE, PURE TUNGSTEN IS INHERENTLY BRITTLE. TYPE W3 AND W5 OFFER THE ADVANTAGE OF DUCTILITY FOR EASE OF HANDLING.



MTI - INDUSTRIAL TEMPERATURE SENSORS