






Thermocouple Tolerances: IEC 60584-2 :1993 / BS EN 60584-1:2013

Type	Thermocouple Material	Tolerance Class 1	Tolerance Class 2	Tolerance Class 3
Type T 	Copper/Constantan (Cu/Con)	-40 to +350°C (±0.5°C) or ±t x 0.004	-40 to +350°C (±1.0°C) or ±t x 0.0075	-200 to +40°C (±1.0°C) or ±t x 0.015
Type J 	Iron/Constantan (Fe/Con)	-40 to +750°C (±1.5°C) or ±t x 0.004	-40 to +750°C (±2.5°C) or ±t x 0.0075	/
Type E 	Nickel Chrome/Constantan (NiCh/Con)	-40 to +800°C (±1.5°C) or ±t x 0.004	-40 to +900°C (±2.5°C) or ±t x 0.0075	-200 to +40°C (±2.5°C) or ±t x 0.015
Type K 	Nickel Chrome/Nickel Aluminium NiCh/NiAl)	-40 to +1000°C (±1.5°C) or ±t x 0.004	-40 to +1200°C (±2.5°C) or ±t x 0.0075	-200 to +40°C (±2.5°C) or ±t x 0.015
Type N 	Nicrosil/Nisil (NiCrNi/NiSi)	-40 to +1000°C (±1.5°C) or ±t x 0.004	-40 to +1200°C (±2.5°C) or ±t x 0.0075	-40 to +1000°C (±1.5°C) or ±t x 0.004
Type R	Platinum-13%Rhodium/Platinum (Pt-13Rh/Pt)	0.0 to 1600°C (±1.0°C) or ±[1+(t-1000)0.003]	-40 to 1600°C (±1.5°C) or ±t x 0.0025	/
Type S	Platinum-10%Rhodium/Platinum (Pt-10Rh/Pt)	0.0 to 1600°C (±1.0°C) or ±[1+(t-1000)0.003]	-40 to 1600°C (±1.5°C) or ±t x 0.0025	/
Type B	Platinum-30%Rhodium/Platinum-6%Rhodium (Pt-30Rh/Pt-6Rh)	/	+600 to 1700°C (±1.5°C) or ±t x 0.0025	+600 to 1700°C (±4.0°C) or ±t x 0.005