EMF Tolerance

American standards ASTM E 230-ANSI MC 96.1

Type of thermocouple	Temperature Range,℃	Tolerance		
		Standard	Special	Standard
Type K	From 0 to 1250	±2.2℃ or ±0.75%	-	-
Type E	From 0 to 900	±1.7℃ or ±0.5%	-	-
Type T	From 0 to 350	±1℃ or ±0.75%	-	-
Type J	From 0 to 750	±2.2℃ or ±0.75%	-	-
Type N	From 0 to 1300	±2.2℃ or ±0.75%	-	-
Type K	From 0 to 1250	-	±1.1℃ or ±0.40%	-
Type E	From 0 to 900	-	±1℃ or ±0.40%	-
Type T	From 0 to 350	-	±0.5℃ or ±0.40%	-
Type J	From 0 to 750	-	±1.1℃ or ±0.40%	-
Type N	From 0 to 1300	-	±1.1℃ or ±0.40%	-
Type K	From -200 to 0	-	-	±2.2℃ or ±2%
Type E	From -200 to 0	-	-	±1.7℃ or ±1%
Type T	From -200 to 0	-	-	±1℃ or ±1.5%

Tolerance is whichever is the greater value

EMF Tolerance

European standards IEC 584-2(DIN EN 60584-2;BS EN 60584-2;JIS C 1602)

Type of thermocouple	Temperature Range,℃	Tolerance		
		Class 1	Class 2	Class 3
Type K	From -40 to 1000	±1.5℃ or ±0.40%	-	-
Type E	From -40 to 800	±1.5℃ or ±0.40%	-	-
Type T	From -40 to 350	±0.5℃ or ±0.40%	-	-
Type J	From -40 to 750	±1.5℃ or ±0.40%	-	-
Type N	From -40 to 1000	±1.5℃ or ±0.40%	-	-
Type K	From -40 to 1200	-	±2.5℃ or ±0.75%	-
Type E	From -40 to 900	-	±2.5℃ or ±0.75%	-
Type T	From -40 to 350	-	±1℃ or ±0.75%	-
Type J	From -40 to 750	-	±2.5℃ or ±0.75%	-
Type N	From -40 to 1200	-	±2.5℃ or ±0.75%	-
Type K	From -40 to 40	-	-	±2.5℃ or ±1.5%
Type E	From -40 to 40	-	-	±2.5℃ or ±1.5%
Type T	From -40 to 40	-	-	±1℃ or ±1.5%
Type N	From -200 to 40	-	-	±2.5℃ or ±1.5%

Tolerance is whichever is the greater value

EMF Tolerance

French standard NF EN 60584-2

Type of thermocouple	Temperature range	Tolerance		
		Class 1	Class 2	Class 3
Type K	From -40 to 1000	±1.5℃ or ±0.40%	-	-
Type E	From -40 to 800	±1.5℃ or ±0.40%	-	-
Type T	From -40 to 350	±1.5℃ or ±0.40%	-	-
Type J	From -40 to 750	±0.5℃ or ±0.40%	-	-
Type N	From -40 to 1000	±1.5℃ or ±0.40%	-	-
Type K	From -40 to 1200	-	±2.5℃ or ±0.75%	-
Type E	From -40 to 900	-	±2.5℃ or ±0.75%	-
Type T	From -40 to 750	-	±2.5℃ or ±0.75%	-
Type J	From -40 to 350	-	±1℃ or ±0.75%	-
Type N	From -40 to 1200	-	±2.5℃ or ±0.75%	-
Type K	From -200 to 40	-	-	±2.5℃ or ±1.5%
Type E	From -200 to 40	-	-	±2.5℃ or ±1.5%
Type T	From -200 to 40	-	-	±1℃ or ±1.5%
Type N	From -200 to 40	-	-	±2.5℃ or ±1.5%

Tolerance is whichever is the greater value