

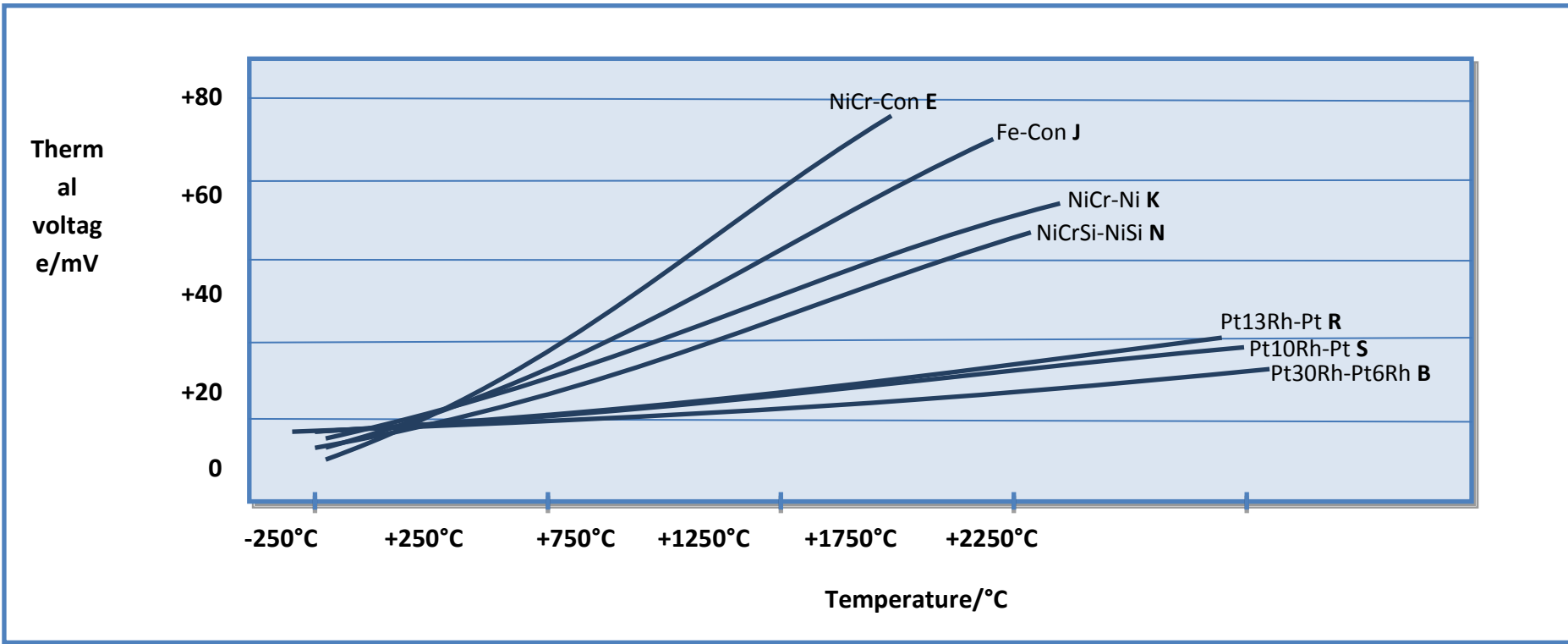


**Tolerances to EN 60 584**

Thermocouple	Type	Tolerance Class	from	Temperature	to	Temperature	:	Tolerance Calculation	or	Total Range Tolerance
Fe-Con	J	Class 1	from	-40°C	to	+750°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 2	from	-40°C	to	+750°C	:	$\pm 0.0075 \times t$	or	$\pm 2.5^\circ\text{C}$
		Class 3								
Cu-Con	T	Class 1	from	-40°C	to	+350°C	:	$\pm 0.004 \times t$	or	$\pm 0.5^\circ\text{C}$
		Class 2	from	-40°C	to	+350°C	:	$\pm 0.0075 \times t$	or	$\pm 1.0^\circ\text{C}$
		Class 3	from	-200°C	to	+40°C	:	$\pm 0.0015 \times t$	or	$\pm 1.0^\circ\text{C}$
Ni-CrNi	K	Class 1	from	-40°C	to	+1000°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 2	from	-40°C	to	+1200°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 3	from	-200°C	to	+40°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
NiCrSi-NiSi	N	Class 1	from	-40°C	to	+1000°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 2	from	-40°C	to	+1200°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 3	from	-200°C	to	+40°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
NiCr-Con	E	Class 1	from	-40°C	to	+1000°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 2	from	-40°C	to	+1200°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 3	from	-200°C	to	+40°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
Pt10Rh-Pt	S	Class 1	from	0°C	to	+1600°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 2	from	-40°C	to	+1600°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 3								
Pt13Rh-Pt	R	Class 1	from	0°C	to	+1600°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 2	from	-40°C	to	+1600°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 3								
Pt30RhPt6Rh	B	Class 1								
		Class 2	from	+600°C	to	+1700°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$
		Class 3	from	+600°C	to	+1700°C	:	$\pm 0.004 \times t$	or	$\pm 1.5^\circ\text{C}$



Characteristics of thermocouples to EN 60 584





**Tolerances to DIN 43710(1977)**

Thermocouple type	from Temperature	to Temperature	Tolerance calculation	Total Range Tolerance
Cu-Con U	from +100°C	to +400°C	:	±3°C
	from +400°C	to +600°C	:	±0.0075 x t
Fe-Con L	from -100°C	to +400°C	:	±3°C
	from -400°C	to +900°C	:	±0.0075 x t

**Tolerances classes for Resistance – Temperature validity range**

Tolerance Class	Sensor Category	from Temperature	to Temperature	Tolerance in K
<b>Class 1/3 DIN B</b>	Thin-Film	from -50°C	to +200°C	± (0.10K + 0.0017 x  t )
	Wire	from -70°C	to +250°C	
<b>Class A</b>	Thin-Film	from -70°C	to +300°C	± (0.15K + 0.002 x  t )
	Wire	from -200°C	to +600°C	
<b>Class B</b>	Thin-Film	from -70°C	to +600°C	± (0.30K + 0.005 x  t )
	Wire	from -200°C	to +850°C	
<b>Class 0.5</b>	Thin-Film	from -200°C	to +600°C	± (0.50K + 0.006 x  t )
	Wire	from -200°C	to +850°C	

|t| = measured temperature in °C (without sign)