

TABLEAUX D'EQUIVALENCE $mV - ^\circ C$ DES COUPLES THERMOELECTRIQUES



Thermocouple type:

Plage d'utilisation:

Couleur selon CEI 60584-3 (+ / -):

Alliages Couple (+ / -):

Tolerance selon CEI 60584-3

Tolerance selon MC96.1

FEM (mV) en fonction de la température:

-40 à +750°C

Noir / Blanc

Fer / Constantan (Cuivre + Nickel)

Classe 1: $\pm 1.5^\circ C$ de -40 à +375°C & $\pm 0.004xT^\circ$ de 375 à 750°C

Classe 2: $\pm 2.5^\circ C$ de -40 à +333°C & $\pm 0.0075xT^\circ$ de 333 à 750°C

Special Limit: 1,1°C ou 0,4%

Standard: 2,2°C ou 0,75%

J

°C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
-200	-8,095	-8,076	-8,057	-8,037	-8,017	-7,996	-7,976	-7,955	-7,934	-7,912	-7,890
-190	-7,890	-7,868	-7,846	-7,824	-7,801	-7,778	-7,755	-7,731	-7,707	-7,683	-7,659
-180	-7,659	-7,634	-7,610	-7,585	-7,559	-7,534	-7,508	-7,482	-7,456	-7,429	-7,403
-170	-7,403	-7,376	-7,348	-7,321	-7,293	-7,265	-7,237	-7,209	-7,181	-7,152	-7,123
-160	-7,123	-7,094	-7,064	-7,035	-7,005	-6,975	-6,944	-6,914	-6,883	-6,853	-6,821
-150	-6,821	-6,790	-6,759	-6,727	-6,695	-6,663	-6,631	-6,598	-6,566	-6,533	-6,500
-140	-6,500	-6,467	-6,433	-6,400	-6,366	-6,332	-6,298	-6,263	-6,229	-6,194	-6,159
-130	-6,159	-6,124	-6,089	-6,054	-6,018	-5,982	-5,946	-5,910	-5,874	-5,838	-5,801
-120	-5,801	-5,764	-5,727	-5,690	-5,653	-5,616	-5,578	-5,541	-5,503	-5,465	-5,426
-110	-5,426	-5,388	-5,350	-5,311	-5,272	-5,233	-5,194	-5,155	-5,116	-5,076	-5,037
-100	-5,037	-4,997	-4,957	-4,917	-4,877	-4,836	-4,796	-4,755	-4,714	-4,674	-4,633
-90	-4,633	-4,591	-4,550	-4,509	-4,467	-4,425	-4,384	-4,342	-4,300	-4,257	-4,215
-80	-4,215	-4,173	-4,130	-4,088	-4,045	-4,002	-3,959	-3,916	-3,872	-3,829	-3,786
-70	-3,786	-3,742	-3,698	-3,654	-3,610	-3,566	-3,522	-3,478	-3,434	-3,389	-3,344
-60	-3,344	-3,300	-3,255	-3,210	-3,165	-3,120	-3,075	-3,029	-2,984	-2,938	-2,893
-50	-2,893	-2,847	-2,801	-2,755	-2,709	-2,663	-2,617	-2,571	-2,524	-2,478	-2,431
-40	-2,431	-2,385	-2,338	-2,291	-2,244	-2,197	-2,150	-2,103	-2,055	-2,008	-1,961
-30	-1,961	-1,913	-1,865	-1,818	-1,770	-1,722	-1,674	-1,626	-1,578	-1,530	-1,482
-20	-1,482	-1,433	-1,385	-1,336	-1,288	-1,239	-1,190	-1,142	-1,093	-1,044	-0,995
-10	-0,995	-0,946	-0,896	-0,847	-0,798	-0,749	-0,699	-0,650	-0,600	-0,550	-0,501
0	-0,501	-0,451	-0,401	-0,351	-0,301	-0,251	-0,201	-0,151	-0,101	-0,050	0,000

°C	0	1	2	3	4	5	6	7	8	9	10
0	0,000	0,050	0,101	0,151	0,202	0,253	0,303	0,354	0,405	0,456	0,507
10	0,507	0,558	0,609	0,660	0,711	0,762	0,814	0,865	0,916	0,968	1,019
20	1,019	1,071	1,122	1,174	1,226	1,277	1,329	1,381	1,433	1,485	1,537
30	1,537	1,589	1,641	1,693	1,745	1,797	1,849	1,902	1,954	2,006	2,059
40	2,059	2,111	2,164	2,216	2,269	2,322	2,374	2,427	2,480	2,532	2,585
50	2,585	2,638	2,691	2,744	2,797	2,850	2,903	2,956	3,009	3,062	3,116
60	3,116	3,169	3,222	3,275	3,329	3,382	3,436	3,489	3,543	3,596	3,650
70	3,650	3,703	3,757	3,810	3,864	3,918	3,971	4,025	4,079	4,133	4,187
80	4,187	4,240	4,294	4,348	4,402	4,456	4,510	4,564	4,618	4,672	4,726
90	4,726	4,781	4,835	4,889	4,943	4,997	5,052	5,106	5,160	5,215	5,269
100	5,269	5,323	5,378	5,432	5,487	5,541	5,595	5,650	5,705	5,759	5,814
110	5,814	5,868	5,923	5,977	6,032	6,087	6,141	6,196	6,251	6,306	6,360
120	6,360	6,415	6,470	6,525	6,579	6,634	6,689	6,744	6,799	6,854	6,909
130	6,909	6,964	7,019	7,074	7,129	7,184	7,239	7,294	7,349	7,404	7,459
140	7,459	7,514	7,569	7,624	7,679	7,734	7,789	7,844	7,900	7,955	8,010
150	8,010	8,065	8,120	8,175	8,231	8,286	8,341	8,396	8,452	8,507	8,562
160	8,562	8,618	8,673	8,728	8,783	8,839	8,894	8,949	9,005	9,060	9,115
170	9,115	9,171	9,226	9,282	9,337	9,392	9,448	9,503	9,559	9,614	9,669
180	9,669	9,725	9,780	9,836	9,891	9,947	10,002	10,057	10,113	10,168	10,224
190	10,224	10,279	10,335	10,390	10,446	10,501	10,557	10,612	10,668	10,723	10,779
200	10,779	10,834	10,890	10,945	11,001	11,056	11,112	11,167	11,223	11,278	11,334
210	11,334	11,389	11,445	11,501	11,556	11,612	11,667	11,723	11,778	11,834	11,889
220	11,889	11,945	12,000	12,056	12,111	12,167	12,222	12,278	12,334	12,389	12,445
230	12,445	12,500	12,556	12,611	12,667	12,722	12,778	12,833	12,889	12,944	13,000
240	13,000	13,056	13,111	13,167	13,222	13,278	13,333	13,389	13,444	13,500	13,555
250	13,555	13,611	13,666	13,722	13,777	13,833	13,888	13,944	13,999	14,055	14,110
260	14,110	14,166	14,221	14,277	14,332	14,388	14,443	14,499	14,554	14,609	14,665
270	14,665	14,720	14,776	14,831	14,887	14,942	14,998	15,053	15,109	15,164	15,219
280	15,219	15,275	15,330	15,386	15,441	15,496	15,552	15,607	15,663	15,718	15,773
290	15,773	15,829	15,884	15,940	15,995	16,050	16,106	16,161	16,216	16,272	16,327
300	16,327	16,383	16,438	16,493	16,549	16,604	16,659	16,715	16,770	16,825	16,881
310	16,881	16,936	16,991	17,046	17,102	17,157	17,212	17,268	17,323	17,378	17,434
320	17,434	17,489	17,544	17,599	17,655	17,710	17,765	17,820	17,876	17,931	17,986
330	17,986	18,041	18,097	18,152	18,207	18,262	18,318	18,373	18,428	18,483	18,538
340	18,538	18,594	18,649	18,704	18,759	18,814	18,870	18,925	18,980	19,035	19,090
350	19,090	19,146	19,201	19,256	19,311	19,366	19,422	19,477	19,532	19,587	19,642
360	19,642	19,697	19,753	19,808	19,863	19,918	19,973	20,028	20,083	20,139	20,194
370	20,194	20,249	20,304	20,359	20,414	20,469	20,525	20,580	20,635	20,690	20,745
380	20,745	20,800	20,855	20,911	20,966	21,021	21,076	21,131	21,186	21,241	21,297
390	21,297	21,352	21,407	21,462	21,517	21,572	21,627	21,683	21,738	21,793	21,848
400	21,848	21,903	21,958	22,014	22,069	22,124	22,179	22,234	22,289	22,344	22,400
410	22,400	22,455	22,510	22,565	22,620	22,676	22,731	22,786	22,841	22,896	22,952
420	22,952	23,007	23,062	23,117	23,172	23,228	23,283	23,338	23,393	23,449	23,504
430	23,504	23,559	23,614	23,670	23,725	23,780	23,835	23,891	23,946	24,001	24,057
440	24,057	24,112	24,167	24,223	24,278	24,333	24,389	24,444	24,499	24,555	24,610
450	24,610	24,665	24,721	24,776	24,832	24,887	24,943	24,998	25,053	25,109	25,164
460	25,164	25,220	25,275	25,331	25,386	25,442	25,497	25,553	25,608	25,664	25,720
470	25,720	25,775	25,831	25,886	25,942	25,998	26,053	26,109	26,165	26,220	26,276
480	26,276	26,332	26,387	26,443	26,499	26,555	26,610	26,666	26,722	26,778	26,834

°C	0	1	2	3	4	5	6	7	8	9
490	26,834	26,889	26,945	27,001	27,057	27,113	27,169	27,225	27,281	27,337
500	27,393	27,449	27,505	27,561	27,617	27,673	27,729	27,785	27,841	27,897
510	27,953	28,010	28,066	28,122	28,178	28,234	28,291	28,347	28,403	28,460
520	28,516	28,572	28,629	28,685	28,741	28,798	28,854	28,911	28,967	29,024
530	29,080	29,137	29,194	29,250	29,307	29,363	29,420	29,477	29,534	29,590
540	29,647	29,704	29,761	29,818	29,874	29,931	29,988	30,045	30,102	30,159
550	30,216	30,273	30,330	30,387	30,444	30,502	30,559	30,616	30,673	30,730
560	30,788	30,845	30,902	30,960	31,017	31,074	31,132	31,189	31,247	31,304
570	31,362	31,419	31,477	31,535	31,592	31,650	31,708	31,766	31,823	31,881
580	31,939	31,997	32,055	32,113	32,171	32,229	32,287	32,345	32,403	32,461
590	32,519	32,577	32,636	32,694	32,752	32,810	32,869	32,927	32,985	33,044
600	33,102	33,161	33,219	33,278	33,337	33,395	33,454	33,513	33,571	33,630
610	33,689	33,748	33,807	33,866	33,925	33,984	34,043	34,102	34,161	34,220
620	34,279	34,338	34,397	34,457	34,516	34,575	34,635	34,694	34,754	34,813
630	34,873	34,932	34,992	35,051	35,111	35,171	35,230	35,290	35,350	35,410
640	35,470	35,530	35,590	35,650	35,710	35,770	35,830	35,890	35,950	36,010
650	36,071	36,131	36,191	36,252	36,312	36,373	36,433	36,494	36,554	36,615
660	36,675	36,736	36,797	36,858	36,918	36,979	37,040	37,101	37,162	37,223
670	37,284	37,345	37,406	37,467	37,528	37,590	37,651	37,712	37,773	37,835
680	37,896	37,958	38,019	38,081	38,142	38,204	38,265	38,327	38,389	38,450
690	38,512	38,574	38,636	38,698	38,760	38,822	38,884	38,946	39,008	39,070
700	39,132	39,194	39,256	39,318	39,381	39,443	39,505	39,568	39,630	39,693
710	39,755	39,818	39,880	39,943	40,005	40,068	40,131	40,193	40,256	40,319
720	40,382	40,445	40,508	40,570	40,633	40,696	40,759	40,822	40,886	40,949
730	41,012	41,075	41,138	41,201	41,265	41,328	41,391	41,455	41,518	41,581
740	41,645	41,708	41,772	41,835	41,899	41,962	42,026	42,090	42,153	42,217
750	42,281	42,344	42,408	42,472	42,536	42,599	42,663	42,727	42,791	42,855
760	42,919	42,983	43,047	43,111	43,175	43,239	43,303	43,367	43,431	43,495
770	43,559	43,623	43,688	43,752	43,817	43,881	43,945	44,010	44,074	44,138
780	44,203	44,267	44,332	44,396	44,461	44,525	44,590	44,655	44,719	44,784
790	44,848	44,913	44,977	45,042	45,107	45,171	45,236	45,301	45,365	45,430
800	45,494	45,559	45,624	45,688	45,753	45,818	45,882	45,947	46,011	46,076
810	46,141	46,205	46,270	46,334	46,399	46,464	46,528	46,593	46,657	46,722
820	46,786	46,851	46,915	46,980	47,044	47,109	47,173	47,238	47,302	47,367
830	47,431	47,495	47,560	47,624	47,688	47,753	47,817	47,881	47,946	48,010
840	48,074	48,138	48,202	48,267	48,331	48,395	48,459	48,523	48,587	48,651
850	48,715	48,779	48,843	48,907	48,971	49,034	49,098	49,162	49,226	49,290
860	49,353	49,417	49,481	49,544	49,608	49,672	49,735	49,799	49,862	49,926
870	49,989	50,052	50,116	50,179	50,243	50,306	50,369	50,432	50,495	50,559
880	50,622	50,685	50,748	50,811	50,874	50,937	51,000	51,063	51,126	51,189
890	51,251	51,314	51,377	51,439	51,502	51,565	51,627	51,690	51,752	51,815
900	51,877	51,940	52,002	52,064	52,127	52,189	52,251	52,314	52,376	52,438
910	52,500	52,562	52,624	52,686	52,748	52,810	52,872	52,934	52,996	53,057
920	53,119	53,181	53,243	53,304	53,366	53,427	53,489	53,550	53,612	53,673
930	53,735	53,796	53,857	53,919	53,980	54,041	54,102	54,164	54,225	54,286
940	54,347	54,408	54,469	54,530	54,591	54,652	54,713	54,773	54,834	54,895
950	54,956	55,016	55,077	55,138	55,198	55,259	55,319	55,380	55,440	55,501
960	55,561	55,622	55,682	55,742	55,803	55,863	55,923	55,983	56,043	56,103
970	56,164	56,224	56,284	56,344	56,404	56,464	56,524	56,584	56,643	56,703
980	56,763	56,823	56,883	56,942	57,002	57,062	57,121	57,181	57,240	57,300
990	57,360	57,419	57,479	57,538	57,597	57,657	57,716	57,776	57,835	57,894
1000	57,953	58,013	58,072	58,131	58,190	58,249	58,309	58,368	58,427	58,486
1010	58,545	58,604	58,663	58,722	58,781	58,840	58,899	58,957	59,016	59,075
1020	59,134	59,193	59,252	59,310	59,369	59,428	59,487	59,545	59,604	59,663
1030	59,721	59,780	59,838	59,897	59,956	60,014	60,073	60,131	60,190	60,248
1040	60,307	60,365	60,423	60,482	60,540	60,599	60,657	60,715	60,774	60,832
1050	60,890	60,949	61,007	61,065	61,123	61,182	61,240	61,298	61,356	61,415
1060	61,473	61,531	61,589	61,647	61,705	61,763	61,822	61,880	61,938	61,996
1070	62,054	62,112	62,170	62,228	62,286	62,344	62,402	62,460	62,518	62,576
1080	62,634	62,692	62,750	62,808	62,866	62,924	62,982	63,040	63,098	63,156
1090	63,214	63,271	63,329	63,387	63,445	63,503	63,561	63,619	63,677	63,734
1100	63,792	63,850	63,908	63,966	64,024	64,081	64,139	64,197	64,255	64,313
1110	64,370	64,428	64,486	64,544	64,602	64,659	64,717	64,775	64,833	64,890
1120	64,948	65,006	65,064	65,121	65,179	65,237	65,295	65,352	65,410	65,468
1130	65,525	65,583	65,641	65,699	65,756	65,814	65,872	65,929	65,987	66,045
1140	66,102	66,160	66,218	66,275	66,333	66,391	66,448	66,506	66,564	66,621
1150	66,679	66,737	66,794	66,852	66,910	66,967	67,025	67,082	67,140	67,198
1160	67,255	67,313	67,370	67,428	67,486	67,543	67,601	67,658	67,716	67,773
1170	67,831	67,888	67,946	68,003	68,061	68,119	68,176	68,234	68,291	68,348
1180	68,406	68,463	68,521	68,578	68,636	68,693	68,751	68,808	68,865	68,923
1190	68,980	69,037	69,095	69,152	69,209	69,267	69,324	69,381	69,439	69,496

TABLEAUX D'EQUIVALENCE mV - °C DES COUPLES THERMOELECTRIQUES



Thermocouple type:

K

Plage d'utilisation:

Couleur selon CEI 60584-3 (+ / -):

Alliages Couple (+ / -):

Tolerance selon CEI 60584-3

Tolerance selon MC96.1

FEM (mV) en fonction de la température:

-40 à +1200°C

Vert / Blanc

Chromel (Nickel + Chrome) / Alumel (Nickel + Aluminium)

Classe 1: ±1.5°C de -40 à +375°C & ±0.004xT° de 375 à 1000°C

Classe 2: ±2.5°C de -40 à +333°C & ±0.0075xT° de 333 à 1200°C

Special Limit: 1,1°C ou 0,4%

Standard: 2,2°C ou 0,75% au dessus de 0°C & 2,2°C ou 2,0% au dessous de 0°C

°C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
-260	-6,458	-6,457	-6,456	-6,455	-6,453	-6,452	-6,450	-6,448	-6,446	-6,444	-6,441
-250	-6,441	-6,438	-6,435	-6,432	-6,429	-6,425	-6,421	-6,417	-6,413	-6,408	-6,404
-240	-6,404	-6,399	-6,393	-6,388	-6,382	-6,377	-6,370	-6,364	-6,358	-6,351	-6,344
-230	-6,344	-6,337	-6,329	-6,322	-6,314	-6,306	-6,297	-6,289	-6,280	-6,271	-6,262
-220	-6,262	-6,252	-6,243	-6,233	-6,223	-6,213	-6,202	-6,192	-6,181	-6,170	-6,158
-210	-6,158	-6,147	-6,135	-6,123	-6,111	-6,099	-6,087	-6,074	-6,061	-6,048	-6,035
-200	-6,035	-6,021	-6,007	-5,994	-5,980	-5,965	-5,951	-5,936	-5,922	-5,907	-5,891
-190	-5,891	-5,876	-5,861	-5,845	-5,829	-5,813	-5,797	-5,780	-5,763	-5,747	-5,730
-180	-5,730	-5,713	-5,695	-5,678	-5,660	-5,642	-5,624	-5,606	-5,588	-5,569	-5,550
-170	-5,550	-5,531	-5,512	-5,493	-5,474	-5,454	-5,435	-5,415	-5,395	-5,374	-5,354
-160	-5,354	-5,333	-5,313	-5,292	-5,271	-5,250	-5,228	-5,207	-5,185	-5,163	-5,141
-150	-5,141	-5,119	-5,097	-5,074	-5,052	-5,029	-5,006	-4,983	-4,960	-4,936	-4,913
-140	-4,913	-4,889	-4,865	-4,841	-4,817	-4,793	-4,768	-4,744	-4,719	-4,694	-4,669
-130	-4,669	-4,644	-4,618	-4,593	-4,567	-4,542	-4,516	-4,490	-4,463	-4,437	-4,411
-120	-4,411	-4,384	-4,357	-4,330	-4,303	-4,276	-4,249	-4,221	-4,194	-4,166	-4,138
-110	-4,138	-4,110	-4,082	-4,054	-4,025	-3,997	-3,968	-3,939	-3,911	-3,882	-3,852
-100	-3,852	-3,823	-3,794	-3,764	-3,734	-3,705	-3,675	-3,645	-3,614	-3,584	-3,554
-90	-3,554	-3,523	-3,492	-3,462	-3,431	-3,400	-3,368	-3,337	-3,306	-3,274	-3,243
-80	-3,243	-3,211	-3,179	-3,147	-3,115	-3,083	-3,050	-3,018	-2,986	-2,953	-2,920
-70	-2,920	-2,887	-2,854	-2,821	-2,788	-2,755	-2,721	-2,688	-2,654	-2,620	-2,587
-60	-2,587	-2,553	-2,519	-2,485	-2,450	-2,416	-2,382	-2,347	-2,312	-2,278	-2,243
-50	-2,243	-2,208	-2,173	-2,138	-2,103	-2,067	-2,032	-1,996	-1,961	-1,925	-1,889
-40	-1,889	-1,854	-1,818	-1,782	-1,745	-1,709	-1,673	-1,637	-1,600	-1,564	-1,527
-30	-1,527	-1,490	-1,453	-1,417	-1,380	-1,343	-1,305	-1,268	-1,231	-1,194	-1,156
-20	-1,156	-1,119	-1,081	-1,043	-1,006	-0,968	-0,930	-0,892	-0,854	-0,816	-0,778
-10	-0,778	-0,739	-0,701	-0,663	-0,624	-0,586	-0,547	-0,508	-0,470	-0,431	-0,392
0	-0,392	-0,353	-0,314	-0,275	-0,236	-0,197	-0,157	-0,118	-0,079	-0,039	0,000

°C	0	1	2	3	4	5	6	7	8	9	10
0	0,000	0,039	0,079	0,119	0,158	0,198	0,238	0,277	0,317	0,357	0,397
10	0,397	0,437	0,477	0,517	0,557	0,597	0,637	0,677	0,718	0,758	0,798
20	0,798	0,838	0,877	0,919	0,960	1,001	1,041	1,081	1,122	1,163	1,203
30	1,203	1,244	1,285	1,326	1,366	1,407	1,448	1,489	1,530	1,571	1,612
40	1,612	1,653	1,694	1,735	1,776	1,817	1,858	1,899	1,941	1,982	2,023
50	2,023	2,064	2,106	2,147	2,188	2,230	2,271	2,312	2,354	2,395	2,436
60	2,436	2,478	2,519	2,561	2,602	2,644	2,685	2,727	2,768	2,810	2,851
70	2,851	2,893	2,934	2,976	3,017	3,059	3,100	3,142	3,184	3,225	3,267
80	3,267	3,308	3,349	3,391	3,433	3,474	3,516	3,557	3,599	3,640	3,682
90	3,682	3,723	3,765	3,806	3,848	3,889	3,931	3,972	4,013	4,055	4,096
100	4,096	4,138	4,179	4,220	4,262	4,303	4,344	4,385	4,427	4,468	4,509
110	4,509	4,550	4,591	4,633	4,674	4,715	4,756	4,797	4,838	4,879	4,920
120	4,920	4,961	5,002	5,043	5,084	5,124	5,165	5,206	5,247	5,288	5,328
130	5,328	5,369	5,410	5,450	5,491	5,532	5,572	5,613	5,653	5,694	5,735
140	5,735	5,775	5,815	5,856	5,896	5,937	5,977	6,017	6,058	6,098	6,138
150	6,138	6,179	6,219	6,259	6,299	6,339	6,380	6,420	6,460	6,500	6,540
160	6,540	6,580	6,620	6,660	6,701	6,741	6,781	6,821	6,861	6,901	6,941
170	6,941	6,981	7,021	7,060	7,100	7,140	7,180	7,220	7,260	7,300	7,340
180	7,340	7,380	7,420	7,460	7,500	7,540	7,579	7,619	7,659	7,699	7,739
190	7,739	7,779	7,819	7,859	7,899	7,939	7,979	8,019	8,059	8,099	8,138
200	8,138	8,178	8,218	8,258	8,298	8,338	8,378	8,418	8,458	8,499	8,539
210	8,539	8,579	8,619	8,659	8,699	8,739	8,779	8,819	8,860	8,900	8,940
220	8,940	8,980	9,020	9,061	9,101	9,141	9,181	9,222	9,262	9,302	9,343
230	9,343	9,383	9,423	9,464	9,504	9,545	9,585	9,626	9,666	9,707	9,747
240	9,747	9,788	9,828	9,869	9,909	9,950	9,991	10,031	10,072	10,113	10,153
250	10,153	10,194	10,235	10,276	10,316	10,357	10,398	10,439	10,480	10,520	10,561
260	10,561	10,602	10,643	10,684	10,725	10,766	10,807	10,848	10,889	10,930	10,971
270	10,971	11,012	11,053	11,094	11,135	11,176	11,217	11,259	11,300	11,341	11,382
280	11,382	11,423	11,465	11,506	11,547	11,588	11,630	11,671	11,712	11,753	11,795
290	11,795	11,836	11,877	11,919	11,960	12,001	12,043	12,084	12,126	12,167	12,209
300	12,209	12,250	12,291	12,333	12,374	12,416	12,457	12,499	12,540	12,582	12,624
310	12,624	12,665	12,707	12,748	12,790	12,831	12,873	12,915	12,956	12,998	13,040
320	13,040	13,081	13,123	13,165	13,206	13,248	13,290	13,331	13,373	13,415	13,457
330	13,457	13,498	13,540	13,582	13,624	13,665	13,707	13,749	13,791	13,833	13,874
340	13,874	13,916	13,958	14,000	14,042	14,084	14,126	14,167	14,209	14,251	14,293
350	14,293	14,335	14,377	14,419	14,461	14,503	14,545	14,587	14,629	14,671	14,713
360	14,713	14,755	14,797	14,839	14,881	14,923	14,965	15,007	15,049	15,091	15,133
370	15,133	15,175	15,217	15,259	15,301	15,343	15,385	15,427	15,469	15,511	15,554
380	15,554	15,596	15,638	15,680	15,722	15,764	15,806	15,849	15,891	15,933	15,975
390	15,975	16,017	16,059	16,102	16,144	16,186	16,228	16,270	16,313	16,355	16,397
400	16,397	16,439	16,482	16,524	16,566	16,608	16,651	16,693	16,735	16,778	16,820
410	16,820	16,862	16,904	16,947	16,989	17,031	17,074	17,116	17,158	17,201	17,243
420	17,243	17,285	17,328	17,370	17,413	17,455	17,497	17,540	17,582	17,624	17,667
430	17,667	17,709	17,752	17,794	17,837	17,879	17,921	17,964	18,006	18,049	18,091
440	18,091	18,134	18,176	18,218	18,261	18,303	18,346	18,388	18,431	18,473	18,516
450	18,516	18,558	18,601	18,643	18,686	18,728	18,771	18,813	18,856	18,898	18,941
460	18,941	18,983	19,026	19,068	19,111	19,154	19,196	19,239	19,281	19,324	19,366
470	19,366	19,409	19,451	19,494	19,537	19,579	19,622	19,664	19,707	19,750	19,792
480	19,792	19,835	19,877	19,920	19,962	20,005	20,048	20,090	20,133	20,175	20,218
490	20,218	20,261	20,303	20,346	20,389	20,431	20,474	20,516	20,559	20,602	20,644
500	20,644	20,687	20,730	20,772	20,815	20,857	20,900	20,943	20,985	21,028	21,071
510	21,071	21,113	21,156	21,199	21,241	21,284	21,326	21,369	21,412	21,454	21,497
520	21,497	21,540	21,582	21,625	21,668	21,710	21,753	21,796	21,838	21,881	21,924
530	21,924	21,966	22,009	22,052	22,094	22,137	22,179	22,222	22,265	22,307	22,350
540	22,350	22,393	22,435	22,478	22,521	22,563	22,606	22,649	22,691	22,734	22,776

°C	0	1	2	3	4	5	6	7	8	9
550	22,776	22,819	22,862	22,904	22,947	22,990	23,032	23,075	23,117	23,160
560	23,203	23,245	23,288	23,331	23,373	23,416	23,458	23,501	23,544	23,586
570	23,629	23,671	23,714	23,757	23,799	23,842	23,884	23,927	23,970	24,012
580	24,055	24,097	24,140	24,182	24,225	24,267	24,310	24,353	24,395	24,438
590	24,480	24,523	24,565	24,608	24,650	24,693	24,735	24,778	24,820	24,863
600	24,905	24,948	24,990	25,033	25,075	25,118	25,160	25,203	25,245	25,288
610	25,330	25,373	25,415	25,458	25,500	25,543	25,585	25,627	25,670	25,712
620	25,755	25,797	25,840	25,882	25,924	25,967	26,009	26,052	26,094	26,136
630	26,179	26,221	26,263	26,306	26,348	26,390	26,433	26,475	26,517	26,560
640	26,602	26,644	26,687	26,729	26,771	26,814	26,856	26,898	26,940	26,983
650	27,025	27,067	27,109	27,152	27,194	27,236	27,278	27,320	27,363	27,405
660	27,447	27,489	27,531	27,574	27,616	27,658	27,700	27,742	27,784	27,826
670	27,869	27,911	27,953	27,995	28,037	28,079	28,121	28,163	28,205	28,247
680	28,289	28,332	28,374	28,416	28,458	28,500	28,542	28,584	28,626	28,668
690	28,710	28,752	28,794	28,835	28,877	28,919	28,961	29,003	29,045	29,087
700	29,129	29,171	29,213	29,255	29,297	29,338	29,380	29,422	29,464	29,506
710	29,548	29,589	29,631	29,673	29,715	29,757	29,798	29,840	29,882	29,924
720	29,965	30,007	30,049	30,090	30,132	30,174	30,216	30,258	30,299	30,341
730	30,382	30,424	30,466	30,507	30,549	30,590	30,632	30,674	30,715	30,757
740	30,798	30,840	30,881	30,923	30,964	31,006	31,047	31,089	31,130	31,172
750	31,213	31,255	31,296	31,338	31,379	31,421	31,462	31,504	31,545	31,586
760	31,628	31,669	31,710	31,752	31,793	31,834	31,876	31,917	31,958	32,000
770	32,041	32,082	32,124	32,165	32,206	32,247	32,289	32,330	32,371	32,412
780	32,453	32,495	32,536	32,577	32,618	32,659	32,700	32,742	32,783	32,824
790	32,865	32,906	32,947	32,988	33,029	33,070	33,111	33,152	33,193	33,234
800	33,275	33,316	33,357	33,398	33,439	33,480	33,521	33,562	33,603	33,644
810	33,685	33,726	33,767	33,808	33,848	33,889	33,930	33,971	34,012	34,053
820	34,093	34,134	34,175	34,216	34,257	34,297	34,338	34,379	34,420	34,461
830	34,501	34,542	34,582	34,623	34,664	34,704	34,745	34,786	34,826	34,867
840	34,908	34,948	34,989	35,029	35,070	35,110	35,151	35,192	35,232	35,273
850	35,313	35,354	35,394	35,435	35,475	35,516	35,556	35,596	35,637	35,677
860	35,718	35,758	35,798	35,838	35,879	35,920	35,960	36,000	36,041	36,081
870	36,121	36,162	36,202	36,242	36,282	36,323	36,363	36,403	36,444	36,484
880	36,524	36,564	36,604	36,644	36,685	36,725	36,765	36,805	36,845	36,885
890	36,925	36,965	37,006	37,046	37,086	37,126	37,166	37,206	37,246	37,286
900	37,326	37,366	37,406	37,446	37,486	37,526	37,566	37,606	37,646	37,686
910	37,725	37,765	37,805	37,845	37,885	37,925	37,965	38,005	38,044	38,084
920	38,124	38,164	38,204	38,243	38,283	38,323	38,363	38,403	38,442	38,482
930	38,522	38,561	38,601	38,641	38,680	38,720	38,760	38,799	38,839	38,878
940	38,918	38,958	38,997	39,037	39,076	39,116	39,155	39,195	39,235	39,274
950	39,314	39,353	39,393	39,432	39,471	39,511	39,550	39,590	39,629	39,668
960	39,708	39,747	39,787	39,826	39,866	39,905	39,944	39,984	40,023	40,062
970	40,101	40,141	40,180	40,219	40,259	40,298	40,337	40,376	40,415	40,454
980	40,494	40,533	40,572	40,611	40,651	40,690	40,729	40,768	40,807	40,846
990	40,885	40,924	40,963	41,002	41,041	41,081	41,120	41,159	41,198	41,237
1000	41,276	41,315	41,354	41,393	41,431	41,470	41,509	41,548	41,587	41,626
1010	41,665	41,704	41,743	41,781	41,820	41,859	41,898	41,937	41,976	42,014
1020	42,053	42,092	42,131	42,169	42,208	42,247	42,286	42,324	42,363	42,402
1030	42,440	42,479	42,518	42,556	42,595	42,633	42,672	42,711	42,749	42,788
1040	42,826	42,865	42,903	42,942	42,980	43,019	43,057	43,096	43,134	43,173
1050	43,211	43,250	43,288	43,327	43,365	43,403	43,442	43,480	43,518	43,556
1060	43,595	43,633	43,672	43,710	43,748	43,787	43,825	43,863	43,901	43,940
1070	43,978	44,016	44,054	44,092	44,130	44,169	44,207	44,245	44,283	44,321
1080	44,359	44,397	44,435	44,473	44,512	44,550	44,588	44,626	44,664	44,702
1090	44,740	44,778	44,816	44,853	44,891	44,929	44,967	45,005	45,043	45,081
1100	45,119	45,157	45,194	45,232	45,270	45,308	45,346	45,383	45,421	45,459
1110	45,497	45,534	45,572	45,610	45,647	45,685	45,723	45,760	45,798	45,836
1120	45,873	45,911	45,948	45,986	46,024	46,061	46,099	46,136	46,174	46,211
1130	46,249	46,286	46,324	46,361	46,398	46,436	46,473	46,511	46,548	46,585
1140	46,623	46,660	46,697	46,735	46,772	46,809	46,847	46,884	46,921	46,958
1150	46,995	47,033	47,070	47,107	47,144	47,181	47,218	47,256	47,293	47,330
1160	47,367	47,404	47,441	47,478	47,515	47,552	47,589	47,626	47,663	47,700
1170	47,737	47,774	47,811	47,848	47,884	47,921	47,958	47,995	48,032	48,069
1180	48,105	48,142	48,179	48,216	48,252	48,289	48,326	48,363	48,399	48,436
1190	48,473	48,509	48,546	48,582	48,619	48,656	48,692	48,729	48,765	48,802
1200	48,838	48,875	48,911	48,948	48,984	49,021	49,057	49,093	49,130	49,166
1210	49,202	49,239	49,275	49,311	49,348	49,384	49,420	49,456	49,493	49,529
1220	49,565	49,601	49,637	49,674	49,710	49,746	49,782	49,818	49,854	49,890
1230	49,926	49,962	49,998	50,034	50,070	50,106	50,142	50,178	50,214	50,250
1240	50,286	50,322	50,358	50,393	50,429	50,465	50,501	50,537	50,572	50,608
1250	50,644	50,680	50,715	50,751	50,787	50,822	50,858	50,894	50,929	50,965
1260	51,000	51,036	51,071	51,107	51,142	51,178	51,213	51,249	51,284	51,320
1270	51,355	51,391	51,426	51,461	51,497	51,532	51,567	51,603	51,638	51,673
1280	51,708	51,744	51,779	51,814	51,849	51,885	51,920	51,955	51,990	52,025
1290	52,060	52,095	52,130	52,165	52,200	52,235	52,270	52,305	52,340	52,375
1300	52,410	52,445	52,480	52,515	52,550	52,585	52,620	52,654	52,689	52,724
1310	52,759	52,794	52,828	52,863	52,898	52,932	52,967	53,002	53,037	53,071
1320	53,106	53,140	53,175	53,210	53,244	53,279	53,313	53,348	53,382	53,417
1330	53,451	53,486	53,520	53,555	53,589	53,623	53,658	53,692	53,727	53,761
1340	53,795	53,830	53,864	53,898	53,932	53,967	54,001	54,035	54,069	54,104
1350	54,138	54,172	54,206	54,240	54,274	54,308	54,343	54,377	54,411	54,445
1360	54,479	54,513	54,547	54,581	54,615	54,649	54,683	54,717	54,751	54,785
1370	54,819	54,852	54,886							

TABLEAUX D'EQUIVALENCE mV - °C DES COUPLES THERMOELECTRIQUES



Thermocouple type:

E

Plage d'utilisation: -40 à +900°C
Couleur selon CEI 60584-3 (+ / -): Violet / Blanc
Alliages Couple (+ / -): Chromel (Nickel + Chrome) / Constantan (Cuivre + Nickel)
Tolerance selon CEI 60584-3 Classe 1: ±1,5°C de -40 à +375°C & ±0.0004xT° de 375 à 800°C
Classe 2: ±2,5°C de -40 à +333°C & ±0.0075xT° de 333 à 900°C
Tolerance selon MC96.1 Special Limit: 1,0°C ou 0,4%
Standard: 1,7°C ou 0,5% au dessus de 0°C & 1,7°C ou 1,0% au dessous de 0°C

FEM (mV) en fonction de la température:

°C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
-260	-9,835	-9,833	-9,831	-9,828	-9,825	-9,821	-9,817	-9,813	-9,808	-9,802	-9,797
-250	-9,797	-9,790	-9,784	-9,777	-9,770	-9,762	-9,754	-9,746	-9,737	-9,728	-9,718
-240	-9,718	-9,709	-9,698	-9,688	-9,677	-9,666	-9,654	-9,642	-9,630	-9,617	-9,604
-230	-9,604	-9,591	-9,577	-9,563	-9,548	-9,534	-9,519	-9,503	-9,487	-9,471	-9,455
-220	-9,455	-9,438	-9,421	-9,404	-9,386	-9,368	-9,350	-9,331	-9,313	-9,293	-9,274
-210	-9,274	-9,254	-9,234	-9,214	-9,193	-9,172	-9,151	-9,129	-9,107	-9,085	-9,063
-200	-9,063	-9,040	-9,017	-8,994	-8,971	-8,947	-8,923	-8,899	-8,874	-8,850	-8,825
-190	-8,825	-8,799	-8,774	-8,748	-8,722	-8,696	-8,669	-8,643	-8,616	-8,588	-8,561
-180	-8,561	-8,533	-8,505	-8,477	-8,449	-8,420	-8,391	-8,362	-8,333	-8,303	-8,273
-170	-8,273	-8,243	-8,213	-8,183	-8,152	-8,121	-8,090	-8,059	-8,027	-7,995	-7,963
-160	-7,963	-7,931	-7,899	-7,866	-7,833	-7,800	-7,767	-7,733	-7,700	-7,666	-7,632
-150	-7,632	-7,597	-7,563	-7,528	-7,493	-7,458	-7,423	-7,387	-7,351	-7,315	-7,279
-140	-7,279	-7,243	-7,206	-7,170	-7,133	-7,096	-7,058	-7,021	-6,983	-6,945	-6,907
-130	-6,907	-6,869	-6,831	-6,792	-6,753	-6,714	-6,675	-6,636	-6,596	-6,556	-6,516
-120	-6,516	-6,476	-6,436	-6,396	-6,355	-6,314	-6,273	-6,232	-6,191	-6,149	-6,107
-110	-6,107	-6,065	-6,023	-5,981	-5,939	-5,896	-5,853	-5,810	-5,767	-5,724	-5,681
-100	-5,681	-5,637	-5,593	-5,549	-5,505	-5,461	-5,417	-5,372	-5,327	-5,282	-5,237
-90	-5,237	-5,192	-5,147	-5,101	-5,055	-5,009	-4,963	-4,917	-4,871	-4,824	-4,777
-80	-4,777	-4,731	-4,684	-4,636	-4,589	-4,542	-4,494	-4,446	-4,398	-4,350	-4,302
-70	-4,302	-4,254	-4,205	-4,156	-4,107	-4,058	-4,009	-3,960	-3,911	-3,861	-3,811
-60	-3,811	-3,761	-3,711	-3,661	-3,611	-3,561	-3,510	-3,459	-3,408	-3,357	-3,306
-50	-3,306	-3,255	-3,204	-3,152	-3,100	-3,048	-2,996	-2,944	-2,892	-2,840	-2,787
-40	-2,787	-2,735	-2,682	-2,629	-2,576	-2,523	-2,469	-2,416	-2,362	-2,309	-2,255
-30	-2,255	-2,201	-2,147	-2,093	-2,038	-1,984	-1,929	-1,874	-1,820	-1,765	-1,709
-20	-1,709	-1,654	-1,599	-1,543	-1,488	-1,432	-1,376	-1,320	-1,264	-1,208	-1,152
-10	-1,152	-1,095	-1,039	-0,982	-0,925	-0,868	-0,811	-0,754	-0,697	-0,639	-0,582
0	-0,582	-0,524	-0,466	-0,408	-0,350	-0,292	-0,234	-0,176	-0,117	-0,059	0,000

°C	0	1	2	3	4	5	6	7	8	9	10
0	0,000	0,059	0,118	0,176	0,235	0,294	0,354	0,413	0,472	0,532	0,591
10	0,591	0,651	0,711	0,770	0,830	0,890	0,950	1,010	1,071	1,131	1,192
20	1,192	1,252	1,313	1,373	1,434	1,495	1,556	1,617	1,678	1,740	1,801
30	1,801	1,862	1,924	1,986	2,047	2,109	2,171	2,233	2,295	2,357	2,420
40	2,420	2,482	2,545	2,607	2,670	2,733	2,795	2,858	2,921	2,984	3,048
50	3,048	3,111	3,174	3,238	3,301	3,365	3,429	3,492	3,556	3,620	3,685
60	3,685	3,749	3,813	3,877	3,942	4,006	4,071	4,136	4,200	4,265	4,330
70	4,330	4,395	4,460	4,526	4,591	4,656	4,722	4,788	4,853	4,919	4,985
80	4,985	5,051	5,117	5,183	5,249	5,315	5,382	5,448	5,514	5,581	5,648
90	5,648	5,714	5,781	5,848	5,915	5,982	6,049	6,117	6,184	6,251	6,319
100	6,319	6,386	6,454	6,522	6,590	6,658	6,725	6,794	6,862	6,930	6,998
110	6,998	7,066	7,135	7,203	7,272	7,341	7,409	7,478	7,547	7,616	7,685
120	7,685	7,754	7,823	7,892	7,962	8,031	8,101	8,170	8,240	8,309	8,379
130	8,379	8,449	8,519	8,589	8,659	8,729	8,799	8,869	8,940	9,010	9,081
140	9,081	9,151	9,222	9,292	9,363	9,434	9,505	9,576	9,647	9,718	9,789
150	9,789	9,860	9,931	10,003	10,074	10,145	10,217	10,288	10,360	10,432	10,503
160	10,503	10,575	10,647	10,719	10,791	10,863	10,935	11,007	11,080	11,152	11,224
170	11,224	11,297	11,369	11,442	11,514	11,587	11,660	11,733	11,805	11,878	11,951
180	11,951	12,024	12,097	12,170	12,243	12,317	12,390	12,463	12,537	12,610	12,684
190	12,684	12,757	12,831	12,904	12,978	13,052	13,126	13,199	13,273	13,347	13,421
200	13,421	13,495	13,569	13,644	13,718	13,792	13,866	13,941	14,015	14,090	14,164
210	14,164	14,239	14,313	14,388	14,463	14,537	14,612	14,687	14,762	14,837	14,912
220	14,912	14,987	15,062	15,137	15,212	15,287	15,362	15,438	15,513	15,588	15,664
230	15,664	15,739	15,815	15,890	15,966	16,041	16,117	16,193	16,269	16,344	16,420
240	16,420	16,496	16,572	16,648	16,724	16,800	16,876	16,952	17,028	17,104	17,181
250	17,181	17,257	17,333	17,409	17,486	17,562	17,639	17,715	17,792	17,868	17,945
260	17,945	18,021	18,098	18,175	18,252	18,328	18,405	18,482	18,559	18,636	18,713
270	18,713	18,790	18,867	18,944	19,021	19,098	19,175	19,252	19,330	19,407	19,484
280	19,484	19,561	19,639	19,716	19,794	19,871	19,948	20,026	20,103	20,181	20,259
290	20,259	20,336	20,414	20,492	20,569	20,647	20,725	20,803	20,880	20,958	21,036
300	21,036	21,114	21,192	21,270	21,348	21,426	21,504	21,582	21,660	21,739	21,817
310	21,817	21,895	21,973	22,051	22,130	22,208	22,286	22,365	22,443	22,522	22,600
320	22,600	22,678	22,757	22,835	22,914	22,993	23,071	23,150	23,228	23,307	23,386
330	23,386	23,464	23,543	23,622	23,701	23,780	23,858	23,937	24,016	24,095	24,174
340	24,174	24,253	24,332	24,411	24,490	24,569	24,648	24,727	24,806	24,885	24,964
350	24,964	25,044	25,123	25,202	25,281	25,360	25,440	25,519	25,598	25,678	25,757

°C	0	1	2	3	4	5	6	7	8	9
360	25,757	25,836	25,916	25,995	26,075	26,154	26,233	26,313	26,392	26,472
370	26,552	26,631	26,711	26,790	26,870	26,950	27,029	27,109	27,189	27,268
380	27,348	27,428	27,507	27,587	27,667	27,747	27,827	27,907	27,986	28,066
390	28,146	28,226	28,306	28,386	28,466	28,546	28,626	28,706	28,786	28,866
400	28,946	29,026	29,106	29,186	29,266	29,346	29,427	29,507	29,587	29,667
410	29,747	29,827	29,908	29,988	30,068	30,148	30,229	30,309	30,389	30,470
420	30,550	30,630	30,711	30,791	30,871	30,952	31,032	31,112	31,193	31,273
430	31,354	31,434	31,515	31,595	31,676	31,756	31,837	31,917	31,998	32,078
440	32,159	32,239	32,320	32,400	32,481	32,562	32,642	32,723	32,803	32,884
450	32,965	33,045	33,126	33,207	33,287	33,368	33,449	33,529	33,610	33,691
460	33,772	33,852	33,933	34,014	34,095	34,175	34,256	34,337	34,418	34,498
470	34,579	34,660	34,741	34,822	34,902	34,983	35,064	35,145	35,226	35,307
480	35,387	35,468	35,549	35,630	35,711	35,792	35,873	35,954	36,034	36,115
490	36,196	36,277	36,358	36,439	36,520	36,601	36,682	36,763	36,843	36,924
500	37,005	37,086	37,167	37,248	37,329	37,410	37,491	37,572	37,653	37,734
510	37,815	37,896	37,977	38,058	38,139	38,220	38,300	38,381	38,462	38,543
520	38,624	38,705	38,786	38,867	38,948	39,029	39,110	39,191	39,272	39,353
530	39,434	39,515	39,596	39,677	39,758	39,839	39,920	40,001	40,082	40,163
540	40,243	40,324	40,405	40,486	40,567	40,648	40,729	40,810	40,891	40,972
550	41,053	41,134	41,215	41,296	41,377	41,457	41,538	41,619	41,700	41,781
560	41,862	41,943	42,024	42,105	42,185	42,266	42,347	42,428	42,509	42,590
570	42,671	42,751	42,832	42,913	42,994	43,075	43,156	43,236	43,317	43,398
580	43,479	43,560	43,640	43,721	43,802	43,883	43,963	44,044	44,125	44,206
590	44,286	44,367	44,448	44,529	44,609	44,690	44,771	44,851	44,932	45,013
600	45,093	45,174	45,255	45,335	45,416	45,497	45,577	45,658	45,738	45,819
610	45,900	45,980	46,061	46,141	46,222	46,302	46,383	46,463	46,544	46,624
620	46,705	46,785	46,866	46,946	47,027	47,107	47,188	47,268	47,349	47,429
630	47,509	47,590	47,670	47,751	47,831	47,911	47,992	48,072	48,152	48,233
640	48,313	48,393	48,474	48,554	48,634	48,715	48,795	48,875	48,955	49,035
650	49,116	49,196	49,276	49,356	49,436	49,517	49,597	49,677	49,757	49,837
660	49,917	49,997	50,077	50,157	50,238	50,318	50,398	50,478	50,558	50,638
670	50,718	50,798	50,878	50,958	51,038	51,118	51,197	51,277	51,357	51,437
680	51,517	51,597	51,677	51,757	51,837	51,916	51,996	52,076	52,156	52,236
690	52,315	52,395	52,475	52,555	52,634	52,714	52,794	52,873	52,953	53,033
700	53,112	53,192	53,272	53,351	53,431	53,510	53,590	53,670	53,749	53,829
710	53,908	53,988	54,068	54,147	54,226	54,306	54,385	54,465	54,544	54,624
720	54,703	54,782	54,862	54,941	55,021	55,100	55,179	55,259	55,338	55,417
730	55,497	55,576	55,655	55,734	55,814	55,893	55,972	56,051	56,131	56,210
740	56,289	56,368	56,447	56,526	56,606	56,685	56,764	56,843	56,922	57,001
750	57,080	57,159	57,238	57,317	57,396	57,475	57,554	57,633	57,712	57,791
760	57,870	57,949	58,028	58,107	58,186	58,265	58,343	58,422	58,501	58,580
770	58,659	58,738	58,816	58,895	58,974	59,053	59,131	59,210	59,289	59,367
780	59,446	59,525	59,604	59,682	59,761	59,839	59,918	59,997	60,075	60,172
790	60,232	60,311	60,390	60,468	60,547	60,625	60,704	60,782	60,860	60,939
800	61,017	61,096	61,174	61,253	61,331	61,409	61,488	61,566	61,644	61,723
810	61,801	61,879	61,958	62,036	62,114	62,192	62,271	62,349	62,427	62,505
820	62,583	62,662	62,740	62,818	62,896	62,974	63,052	63,130	63,208	63,286
830	63,364	63,442	63,520	63,598	63,676	63,754	63,832	63,910	63,988	64,066
840	64,144	64,222	64,300	64,377	64,455	64,533	64,611	64,689	64,766	64,844
850	64,922	65,000	65,077	65,155	65,233	65,310	65,388	65,465	65,543	65,621
860	65,698	65,776	65,853	65,931	66,008	66,086	66,163	66,241	66,318	66,396
870	66,473	66,550	66,628	66,705	66,782	66,860	66,937	67,014	67,092	67,169
880	67,246	67,323	67,400	67,478	67,555	67,632	67,709	67,786	67,863	67,940
890	68,017	68,094	68,171	68,248	68,325	68,402	68,479	68,556	68,633	68,710
900	68,787	68,863	68,940	69,017	69,094	69,171	69,247	69,324	69,401	69,477
910	69,554	69,631	69,707	69,784	69,860	69,937	70,013	70,090	70,166	70,243
920	70,319	70,396	70,472	70,548	70,625	70,701	70,777	70,854	70,930	71,006
930	71,082	71,159	71,235	71,311	71,387	71,463	71,539	71,615	71,692	71,768
940	71,844	71,920	71,996	72,072	72,147	72,223	72,299	72,375	72,451	72,527
950	72,603	72,678	72,754	72,830	72,906	72,981	73,057	73,133	73,208	73,284
960	73,360	73,435	73,511	73,586	73,662	73,738	73,813	73,889	73,964	74,040
970	74,115	74,190	74,266	74,341	74,417	74,492	74,567	74,643	74,718	74,793
980	74,869	74,944	75,019	75,095	75,170	75,245	75,320	75,395	75,471	75,546
990	75,621	75,696	75,771	75,847	75,922	75,997	76,072	76,147	76,223	76,298

TABLEAUX D'EQUIVALENCE $mV - ^\circ C$ DES COUPLES THERMOELECTRIQUES



Thermocouple type:

T

Plage d'utilisation: -40 à +350°C
Couleur selon CEI 60584-3 (+ / -): Brun / Blanc
Alliages Couple (+ / -): Cuivre / Constantan (Cuivre + Nickel)
Tolérance selon CEI 60584-3
Classe 1: $\pm 0,5^\circ C$ de -40 à +125°C & $\pm 0,004xT^\circ$ de 125 à 350°C
Classe 2: $\pm 1,0^\circ C$ de -40 à +133°C & $\pm 0,0075xT^\circ$ de 133 à 350°C
Tolérance selon MC96.1
Special Limit: 0,5°C ou 0,4%
Standard: 1,0°C ou 0,75% au dessus de 0°C & 1,0°C ou 1,5% au dessous de 0°C
FEM (mV) en fonction de la température:

°C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
-260	-6,258	-6,256	-6,255	-6,253	-6,251	-6,248	-6,245	-6,242	-6,239	-6,236	-6,232
-250	-6,232	-6,228	-6,223	-6,219	-6,214	-6,209	-6,204	-6,198	-6,193	-6,187	-6,180
-240	-6,180	-6,174	-6,167	-6,160	-6,153	-6,146	-6,138	-6,130	-6,122	-6,114	-6,105
-230	-6,105	-6,096	-6,087	-6,078	-6,068	-6,059	-6,049	-6,038	-6,028	-6,017	-6,007
-220	-6,007	-5,996	-5,985	-5,973	-5,962	-5,950	-5,938	-5,926	-5,914	-5,901	-5,888
-210	-5,888	-5,876	-5,863	-5,850	-5,836	-5,823	-5,809	-5,795	-5,782	-5,767	-5,753
-200	-5,753	-5,739	-5,724	-5,710	-5,695	-5,680	-5,665	-5,650	-5,634	-5,619	-5,603
-190	-5,603	-5,587	-5,571	-5,555	-5,539	-5,523	-5,506	-5,489	-5,473	-5,456	-5,439
-180	-5,439	-5,421	-5,404	-5,387	-5,369	-5,351	-5,334	-5,316	-5,297	-5,279	-5,261
-170	-5,261	-5,242	-5,224	-5,205	-5,186	-5,167	-5,148	-5,128	-5,109	-5,089	-5,070
-160	-5,070	-5,050	-5,030	-5,010	-4,989	-4,969	-4,949	-4,928	-4,907	-4,886	-4,865
-150	-4,865	-4,844	-4,823	-4,802	-4,780	-4,759	-4,737	-4,715	-4,693	-4,671	-4,648
-140	-4,648	-4,626	-4,604	-4,581	-4,558	-4,535	-4,512	-4,489	-4,466	-4,443	-4,419
-130	-4,419	-4,395	-4,372	-4,348	-4,324	-4,300	-4,275	-4,251	-4,226	-4,202	-4,177
-120	-4,177	-4,152	-4,127	-4,102	-4,077	-4,052	-4,026	-4,000	-3,975	-3,949	-3,923
-110	-3,923	-3,897	-3,871	-3,844	-3,818	-3,791	-3,765	-3,738	-3,711	-3,684	-3,657
-100	-3,657	-3,629	-3,602	-3,574	-3,547	-3,519	-3,491	-3,463	-3,435	-3,407	-3,379
-90	-3,379	-3,350	-3,322	-3,293	-3,264	-3,235	-3,206	-3,177	-3,148	-3,118	-3,089
-80	-3,089	-3,059	-3,030	-3,000	-2,970	-2,940	-2,910	-2,879	-2,849	-2,818	-2,788
-70	-2,788	-2,757	-2,726	-2,695	-2,664	-2,633	-2,602	-2,571	-2,539	-2,507	-2,476
-60	-2,476	-2,444	-2,412	-2,380	-2,348	-2,316	-2,283	-2,251	-2,218	-2,186	-2,153
-50	-2,153	-2,120	-2,087	-2,054	-2,021	-1,987	-1,954	-1,920	-1,887	-1,853	-1,819
-40	-1,819	-1,785	-1,751	-1,717	-1,683	-1,648	-1,614	-1,579	-1,545	-1,510	-1,475
-30	-1,475	-1,440	-1,405	-1,370	-1,335	-1,299	-1,264	-1,228	-1,192	-1,157	-1,121
-20	-1,121	-1,085	-1,049	-1,013	-0,976	-0,940	-0,904	-0,867	-0,830	-0,794	-0,757
-10	-0,757	-0,720	-0,683	-0,646	-0,608	-0,571	-0,534	-0,496	-0,459	-0,421	-0,383
0	-0,383	-0,345	-0,307	-0,269	-0,231	-0,193	-0,154	-0,116	-0,077	-0,039	0,000

°C	0	1	2	3	4	5	6	7	8	9	10
0	0,000	0,039	0,078	0,117	0,156	0,195	0,234	0,273	0,312	0,352	0,391
10	0,391	0,431	0,470	0,510	0,549	0,589	0,629	0,669	0,709	0,749	0,790
20	0,790	0,830	0,870	0,911	0,951	0,992	1,033	1,074	1,114	1,155	1,196
30	1,196	1,238	1,279	1,320	1,362	1,403	1,445	1,486	1,528	1,570	1,612
40	1,612	1,654	1,696	1,738	1,780	1,823	1,865	1,908	1,950	1,993	2,036
50	2,036	2,079	2,122	2,165	2,208	2,251	2,294	2,338	2,381	2,425	2,468
60	2,468	2,512	2,556	2,600	2,643	2,687	2,732	2,776	2,820	2,864	2,909
70	2,909	2,953	2,998	3,043	3,087	3,132	3,177	3,222	3,267	3,312	3,358
80	3,358	3,403	3,448	3,494	3,539	3,585	3,631	3,677	3,722	3,768	3,814
90	3,814	3,860	3,907	3,953	3,999	4,046	4,092	4,138	4,185	4,232	4,279
100	4,279	4,325	4,372	4,419	4,466	4,513	4,561	4,608	4,655	4,702	4,750
110	4,750	4,798	4,845	4,893	4,941	4,988	5,036	5,084	5,132	5,180	5,228
120	5,228	5,277	5,325	5,373	5,422	5,470	5,519	5,567	5,616	5,665	5,714
130	5,714	5,763	5,812	5,861	5,910	5,959	6,008	6,057	6,107	6,156	6,206
140	6,206	6,255	6,305	6,355	6,404	6,454	6,504	6,554	6,604	6,654	6,704
150	6,704	6,754	6,805	6,855	6,905	6,956	7,006	7,057	7,107	7,158	7,209
160	7,209	7,260	7,310	7,361	7,412	7,463	7,515	7,566	7,617	7,668	7,720
170	7,720	7,771	7,823	7,874	7,926	7,977	8,029	8,081	8,133	8,185	8,237
180	8,237	8,289	8,341	8,393	8,445	8,497	8,550	8,602	8,654	8,707	8,759
190	8,759	8,812	8,865	8,917	8,970	9,023	9,076	9,129	9,182	9,235	9,288
200	9,288	9,341	9,395	9,448	9,501	9,555	9,608	9,662	9,715	9,769	9,822
210	9,822	9,876	9,930	9,984	10,038	10,092	10,146	10,200	10,254	10,308	10,362
220	10,362	10,417	10,471	10,525	10,580	10,634	10,689	10,743	10,798	10,853	10,907
230	10,907	10,962	11,017	11,072	11,127	11,182	11,237	11,292	11,347	11,403	11,458
240	11,458	11,513	11,569	11,624	11,680	11,735	11,791	11,846	11,902	11,958	12,013
250	12,013	12,069	12,125	12,181	12,237	12,293	12,349	12,405	12,461	12,518	12,574
260	12,574	12,630	12,687	12,743	12,799	12,856	12,912	12,969	13,026	13,082	13,139
270	13,139	13,196	13,253	13,310	13,366	13,423	13,480	13,537	13,595	13,652	13,709
280	13,709	13,766	13,823	13,881	13,938	13,995	14,053	14,110	14,168	14,226	14,283
290	14,283	14,341	14,399	14,456	14,514	14,572	14,630	14,688	14,746	14,804	14,862
300	14,862	14,920	14,978	15,036	15,095	15,153	15,211	15,270	15,328	15,386	15,445
310	15,445	15,503	15,562	15,621	15,679	15,738	15,797	15,856	15,914	15,973	16,032
320	16,032	16,091	16,150	16,209	16,268	16,327	16,387	16,446	16,505	16,564	16,624
330	16,624	16,683	16,742	16,802	16,861	16,921	16,980	17,040	17,100	17,159	17,219
340	17,219	17,279	17,339	17,399	17,458	17,518	17,578	17,638	17,698	17,759	17,819
350	17,819	17,879	17,939	17,999	18,060	18,120	18,180	18,241	18,301	18,362	18,422
360	18,422	18,483	18,543	18,604	18,665	18,725	18,786	18,847	18,908	18,969	19,030
370	19,030	19,091	19,152	19,213	19,274	19,335	19,396	19,457	19,518	19,579	19,641
380	19,641	19,702	19,763	19,825	19,886	19,947	20,009	20,070	20,132	20,193	20,255
390	20,255	20,317	20,378	20,440	20,502	20,563	20,625	20,687	20,748	20,810	20,872

TABLEAUX D'EQUIVALENCE mV - °C DES COUPLES THERMOELECTRIQUES



Thermocouple type:

S

Plage d'utilisation:

Couleur selon CEI 60584-3 (+ / -):

Alliages Couple (+ / -):

Tolerance selon CEI 60584-3

Tolerance selon MC96.1

FEM (mV) en fonction de la température:

0 à +1600°C

Orange / Blanc

Platine-Rhodium(10%) / Platine

Classe 1: ±1.0°C de 0 à +1100°C & ±1+0.003.(T°-1100) de 1100 à 1600°C

Classe 2: ±1.5°C de 0 à +600°C & ±0.0025xT° de 600 à 1600°C

Special Limit: 0,6°C ou 0,1%

Standard: 1,5°C ou 0,25%

°C	0	1	2	3	4	5	6	7	8	9	10
-40	-0.236	-0.232	-0.228	-0.224	-0.219	-0.215	-0.211	-0.207	-0.203	-0.199	-0.194
-30	-0.194	-0.190	-0.186	-0.181	-0.177	-0.173	-0.168	-0.164	-0.159	-0.155	-0.150
-20	-0.150	-0.146	-0.141	-0.136	-0.132	-0.127	-0.122	-0.117	-0.113	-0.108	-0.103
-10	-0.103	-0.098	-0.093	-0.088	-0.083	-0.078	-0.073	-0.068	-0.063	-0.058	-0.053
0	-0.053	-0.048	-0.042	-0.037	-0.032	-0.027	-0.021	-0.016	-0.011	-0.005	0.000

°C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
0	0.000	0.005	0.011	0.016	0.022	0.027	0.033	0.038	0.044	0.050	0.055
10	0.055	0.061	0.067	0.072	0.078	0.084	0.090	0.095	0.101	0.107	0.113
20	0.113	0.119	0.125	0.131	0.137	0.143	0.149	0.155	0.161	0.167	0.173
30	0.173	0.179	0.185	0.191	0.197	0.204	0.210	0.216	0.222	0.228	0.235
40	0.235	0.241	0.248	0.254	0.260	0.267	0.273	0.280	0.286	0.292	0.299
50	0.299	0.305	0.312	0.319	0.325	0.332	0.338	0.345	0.352	0.358	0.365
60	0.365	0.372	0.378	0.385	0.392	0.399	0.406	0.412	0.418	0.426	0.433
70	0.433	0.440	0.446	0.453	0.460	0.467	0.474	0.481	0.488	0.495	0.502
80	0.502	0.509	0.516	0.523	0.530	0.538	0.545	0.552	0.559	0.566	0.573
90	0.573	0.580	0.588	0.595	0.602	0.609	0.617	0.624	0.631	0.639	0.646
100	0.646	0.653	0.661	0.668	0.675	0.683	0.690	0.698	0.705	0.713	0.720
110	0.720	0.727	0.735	0.743	0.750	0.758	0.765	0.773	0.780	0.788	0.795
120	0.795	0.803	0.811	0.818	0.826	0.834	0.841	0.849	0.857	0.865	0.872
130	0.872	0.880	0.888	0.896	0.903	0.911	0.919	0.927	0.935	0.942	0.950
140	0.950	0.958	0.966	0.974	0.982	0.990	0.998	1.006	1.013	1.021	1.029
150	1.029	1.037	1.045	1.053	1.061	1.069	1.077	1.085	1.094	1.102	1.110
160	1.110	1.118	1.126	1.134	1.142	1.150	1.158	1.167	1.175	1.183	1.191
170	1.191	1.199	1.207	1.216	1.224	1.232	1.240	1.249	1.257	1.265	1.273
180	1.273	1.282	1.290	1.298	1.307	1.315	1.323	1.332	1.340	1.348	1.357
190	1.357	1.365	1.373	1.382	1.390	1.399	1.407	1.415	1.424	1.432	1.441
200	1.441	1.449	1.458	1.466	1.475	1.483	1.492	1.500	1.509	1.517	1.526
210	1.526	1.534	1.543	1.551	1.560	1.569	1.577	1.586	1.594	1.603	1.612
220	1.612	1.620	1.629	1.638	1.646	1.655	1.663	1.672	1.681	1.690	1.698
230	1.698	1.707	1.716	1.724	1.733	1.742	1.751	1.759	1.768	1.777	1.786
240	1.786	1.794	1.803	1.812	1.821	1.829	1.838	1.847	1.856	1.865	1.874
250	1.874	1.882	1.891	1.900	1.909	1.918	1.927	1.936	1.944	1.953	1.962
260	1.962	1.971	1.980	1.989	1.998	2.007	2.016	2.025	2.034	2.043	2.052
270	2.052	2.061	2.070	2.078	2.087	2.096	2.105	2.114	2.123	2.132	2.141
280	2.141	2.151	2.160	2.169	2.178	2.187	2.196	2.205	2.214	2.223	2.232
290	2.232	2.241	2.250	2.259	2.268	2.277	2.287	2.296	2.305	2.314	2.323
300	2.323	2.332	2.341	2.350	2.360	2.369	2.378	2.387	2.396	2.405	2.415
310	2.415	2.424	2.433	2.442	2.451	2.461	2.470	2.479	2.488	2.497	2.507
320	2.507	2.516	2.525	2.534	2.544	2.553	2.562	2.571	2.581	2.590	2.599
330	2.599	2.608	2.618	2.627	2.636	2.646	2.655	2.664	2.674	2.683	2.692
340	2.692	2.702	2.711	2.720	2.730	2.739	2.748	2.758	2.767	2.776	2.786
350	2.786	2.795	2.805	2.814	2.823	2.833	2.842	2.851	2.861	2.870	2.880
360	2.880	2.889	2.899	2.908	2.917	2.927	2.936	2.946	2.955	2.965	2.974
370	2.974	2.984	2.993	3.002	3.012	3.021	3.031	3.040	3.050	3.059	3.069
380	3.069	3.078	3.088	3.097	3.107	3.116	3.126	3.135	3.145	3.154	3.164
390	3.164	3.173	3.183	3.192	3.202	3.212	3.221	3.231	3.240	3.250	3.259
400	3.259	3.269	3.279	3.288	3.298	3.307	3.317	3.326	3.336	3.346	3.355
410	3.355	3.365	3.374	3.384	3.394	3.403	3.413	3.423	3.432	3.442	3.451
420	3.451	3.461	3.471	3.480	3.490	3.500	3.509	3.519	3.529	3.538	3.548
430	3.548	3.558	3.567	3.577	3.587	3.596	3.606	3.616	3.626	3.635	3.645
440	3.645	3.655	3.664	3.674	3.684	3.694	3.703	3.713	3.723	3.732	3.742
450	3.742	3.752	3.762	3.771	3.781	3.791	3.801	3.810	3.820	3.830	3.840
460	3.840	3.850	3.859	3.869	3.879	3.889	3.898	3.908	3.918	3.928	3.938
470	3.938	3.948	3.957	3.967	3.977	3.987	3.997	4.006	4.016	4.026	4.036
480	4.036	4.046	4.056	4.065	4.075	4.085	4.095	4.105	4.115	4.125	4.134
490	4.134	4.144	4.154	4.164	4.174	4.184	4.194	4.204	4.213	4.223	4.233
500	4.233	4.243	4.253	4.263	4.273	4.283	4.293	4.303	4.313	4.323	4.332
510	4.332	4.342	4.352	4.362	4.372	4.382	4.392	4.402	4.412	4.422	4.432
520	4.432	4.442	4.452	4.462	4.472	4.482	4.492	4.502	4.512	4.522	4.532
530	4.532	4.542	4.552	4.562	4.572	4.582	4.592	4.602	4.612	4.622	4.632
540	4.632	4.642	4.652	4.662	4.672	4.682	4.692	4.702	4.712	4.722	4.732
550	4.732	4.742	4.752	4.762	4.772	4.782	4.793	4.803	4.813	4.823	4.833
560	4.833	4.843	4.853	4.863	4.873	4.883	4.893	4.904	4.914	4.924	4.934
570	4.934	4.944	4.954	4.964	4.974	4.984	4.995	5.005	5.015	5.025	5.035
580	5.035	5.045	5.055	5.066	5.076	5.086	5.096	5.106	5.116	5.127	5.137
590	5.137	5.147	5.157	5.167	5.178	5.188	5.198	5.208	5.218	5.228	5.239
600	5.239	5.249	5.259	5.269	5.280	5.290	5.300	5.310	5.320	5.331	5.341
610	5.341	5.351	5.361	5.372	5.382	5.392	5.402	5.413	5.423	5.433	5.443
620	5.443	5.454	5.464	5.474	5.485	5.495	5.505	5.515	5.526	5.536	5.546
630	5.546	5.557	5.567	5.577	5.588	5.598	5.608	5.618	5.629	5.639	5.649
640	5.649	5.660	5.670	5.680	5.691	5.701	5.712	5.722	5.732	5.743	5.753
650	5.753	5.763	5.774	5.784	5.794	5.805	5.815	5.826	5.836	5.846	5.857
660	5.857	5.867	5.878	5.888	5.898	5.909	5.919	5.930	5.940	5.950	5.961
670	5.961	5.971	5.982	5.992	6.003	6.013	6.024	6.034	6.044	6.055	6.065
680	6.065	6.076	6.086	6.097	6.107	6.118	6.128	6.139	6.149	6.160	6.170
690	6.170	6.181	6.191	6.202	6.212	6.223	6.233	6.244	6.254	6.265	6.275
700	6.275	6.286	6.296	6.307	6.317	6.328	6.338	6.349	6.360	6.370	6.381
710	6.381	6.391	6.402	6.412	6.423	6.434	6.444	6.455	6.465	6.476	6.486
720	6.486	6.497	6.508	6.518	6.529	6.539	6.550	6.561	6.571	6.582	6.593
730	6.593	6.603	6.614	6.624	6.635	6.646	6.656	6.667	6.678	6.688	6.699
740	6.699	6.710	6.720	6.731	6.742	6.752	6.763	6.774	6.784	6.795	6.806
750	6.806	6.817	6.827	6.838	6.849	6.859	6.870	6.881	6.892	6.902	6.913
760	6.913	6.924	6.934	6.945	6.956	6.967	6.977	6.988	6.999	7.010	7.020
770	7.020	7.031	7.042	7.053	7.064	7.074	7.085	7.096	7.107	7.117	7.128
780	7.128	7.139	7.150	7.161	7.172	7.182	7.193	7.204	7.215	7.226	7.236
790	7.236	7.247	7.258	7.269	7.280	7.291	7.302	7.312	7.323	7.334	7.345
800	7.345	7.356	7.367	7.378	7.388	7.399	7.410	7.421	7.432	7.443	7.454
810	7.454	7.465	7.476	7.487	7.497	7.508	7.519	7.530	7.541	7.552	7.563
820	7.563	7.574	7.585	7.596	7.607	7.618	7.629	7.640	7.651	7.662	7.673
830	7.673	7.684	7.695	7.706	7.717	7.728	7.739	7.750	7.761	7.772	7.783
840	7.783	7.794	7.805	7.816	7.827	7.838	7.849	7.860	7.871	7.882	7.893

°C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1
850	7.893	7.904	7.915	7.926	7.937	7.948	7.959	7.970	7.981	7.992
860	8.003	8.014	8.026	8.037	8.048	8.059	8.070	8.081	8.092	8.103
870	8.114	8.125	8.137	8.148	8.159	8.170	8.181	8.192	8.203	8.214
880	8.226	8.237	8.248	8.259	8.270	8.281	8.293	8.304	8.315	8.326
890	8.337	8.348	8.360	8.371	8.382	8.393	8.404	8.416	8.427	8.438
900	8.449	8.460	8.472	8.483	8.494	8.505	8.517	8.528	8.539	8.550
910	8.562	8.573	8.584	8.595	8.607	8.618	8.629	8.640	8.652	8.663
920	8.674	8.685	8.697	8.708	8.719	8.731	8.742	8.753	8.765	8.776
930	8.787	8.798	8.810	8.821	8.832	8.844	8.855	8.866	8.878	8.889
940	8.900	8.912	8.923	8.935	8.946	8.957	8.969	8.980	8.991	9.003
950	9.014	9.025	9.037	9.048	9.060	9.071	9.082	9.094	9.105	9.117
960	9.128	9.139	9.151	9.162	9.174	9.185	9.197	9.208	9.219	9.231
970	9.242	9.254	9.265	9.277	9.288	9.300	9.311	9.323	9.334	9.345
980	9.357	9.368	9.380	9.391	9.403	9.414	9.426	9.437	9.449	9.460
990	9.472	9.483	9.495	9.506	9.518	9.529	9.541	9.552	9.564	9.575
1000	9.587	9.599	9.610	9.622	9.633	9.645	9.656	9.668	9.680	9.691
1010	9.703	9.714	9.726	9.737	9.749	9.761	9.772	9.784	9.795	9.807
1020	9.819	9.830	9.842	9.853	9.865	9.877	9.888	9.900	9.911	9.923
1030	9.935	9.946	9.958	9.970	9.981	9.993	10.005	10.016	10.028	10.040
1040	10.051	10.063	10.075	10.086	10.098	10.110	10.121	10.133	10.145	10.156
1050	10.168	10.180	10.191	10.203	10.215	10.227	10.238	10.250	10.262	10.273
1060	10.285	10.297	10.309	10.320	10.332	10.344	10.356	10.367	10.379	10.391
1070	10.403	10.414	10.426	10.438	10.450	10.461	10.473	10.485	10.497	10.509
1080	10.520	10.532	10.544	10.556	10.567	10.579	10.591	10.603	10.615	10.627
1090	10.638	10.650	10.662	10.674	10.686	10.697	10.709	10.721	10.733	10.745
1100	10.757	10.768	10.780	10.792	10.804	10.816	10.828	10.839	10.851	10.863
1110	10.875	10.887	10.899	10.911	10.922	10.934	10.946	10.958	10.970	10.982
1120	10.994	11.006	11.017	11.029	11.041	11.053	11.065	11.077	11.089	11.101
1130	11.113	11.125	11.136	11.148	11.160	11.172	11.184	11.196	11.208	11.220
1140	11.232	11.244	11.256	11.268	11.280	11.291	11.303	11.315	11.327	11.339
1150	11.351	11.363	11.375	11.387	11.399	11.411	11.423	11.435	11.447	11.459
1160	11.471	11.483	11.495	11.507	11.519	11.531	11.542	11.554	11.566	11.578
1170	11.590	11.602	11.614	11.626	11.638	11.650	11.662	11.674	11.686	11.698
1180	11.710	11.722	11.734	11.746	11.758	11.770	11.782	11.794	11.806	11.818
1190	11.830	11.842	11.854	11.866	11.878	11.890	11.902	11.914	11.926	11.938
1200	11.951	11.963	11.975	11.987	11.999	12.011	12.023	12.035	12.047	12.059
1210	12.071	12.083	12.095	12.107	12.119	12.131	12.143	12.155	12.167	12.179
1220	12.191	12.203	12.216	12.228	12.240	12.252	12.264	12.276	12.288	12.300
1230	12.312	12.324	12.336	12.348	12.360	12.372	12.384	12.397	12.409	12.421
1240	12.433	12.445	12.457	12.469	12.481	12.493	12.505	12.517	12.529	12.541
1250	12.554	12.566	12.578	12.590	12.602	12.614	12.626	12.638	12.650	12.662
1260	12.675	12.687	12.699	12.711	12.723	12.735	12.747	12.759	12.771	12.783
1270	12.796	12.808	12.820	12.832	12.844	12.856	12.868	12.880	12.892	12.904
1280	12.917	12.929	12.941	12.953	12.965	12.977	12.989	13.001	13.013	13.025
1290	13.038	13.050	13.062	13.074	13.086	13.098	13.111	13.123	13.135	13.147
1300	13.159	13.171	13.183	13.195	13.208	13.220	13.232	13.244	13.256	13.268
1310	13.280	13.292	13.305	13.317	13.329	13.341	13.353	13.365	13.377	13.390
1320	13.402	13.414	13.426	13.438	13.450	13.462	13.474	13.486	13.498	13.511
1330	13.523	13.535	13.547	13.559	13.572	13.584	13.596	13.608	13.620	13.633
1340	13.644	13.656	13.669	13.681	13.693	13.705	13.717	13.729	13.742	13.754
1350	13.766	13.778	13.790	13.802	13.814	13.826	13.839	13.851	13.863	13.875
1360	13.887	13.899	13.911	13.924	13.936	13.948	13.960	13.972	13.984	13.997
1370	14.009	14.021	14.033	14.045	14.057	14.069	14.081	14.094	14.106	14.118
1380	14.130	14.142	14.154	14.166	14.178	14.191	14.203	14.215	14.227	14.239
1390	14.251	14.263	14.276	14.288	14.300	14.312	14.324	14.336	14.348	14.360
1400	14.373	14.385	14.397	14.409	14.421	14.433	14.445	14.457	14.470	14.482
1410	14.494	14.506	14.518	14.530	14.542	14.554	14.567	14.579	14.591	14.603
1420	14.615	14.627	14.639	14.651	14.664	14.676	14.688	14.700	14.712	14.724
1430	14.736	14.748	14.760	14.773	14.785	14.797	14.809	14.821	14.833	14.845
1440	14.857	14.869	14.881	14.894	14.906	14.918	14.930	14.942	14.954	14.966
1450	14.978	14.990	15.002	15.015	15.027	15.039	15.051	15.063	15.075	15.087
1460	15.099	15.111	15.123	15.135	15.148	15.160	15.172	15.184	15.196	15.208
1470	15.220	15.232	15.244	15.256	15.268	15.280	15.292	15.304	15.317	15.329
1480	15.341	15.353	15.365	15.377	15.389	15.401	15.413	15.425	15.437	15.449
1490	15.461	15.473	15.485	15.497	15.509	15.521	15.534	15.546	15.558	15.570
1500	15.582	15.594	15.606	15.618	15.630	15.642	15.654	15.666	15.678	15.690
1510	15.702	15.714	15.726	15.738	15.750	15.762	15.774	15.786	15.798	15.810
1520	15.822	15.834	15.846	15.858	15.870	15.882	15.894	15.906	15.918	15.930
1530	15.942	15.954	15.966	15.978	15.990	16.002	16.014	16.026	16.038	16.050
1540	16.062	16.074	16.086	16.098	16.110	16.122	16.134	16.146	16.158	16.170
1550	16.182	16.194	16.206	16.217	16.229	16.241	16.253	16.265	16.277	16.289
1560	16.301	16.313	16.325	16.337	16.349	16.361	16.373	16.385	16.396	16.408
1570	16.420	16.432	16.444	16.456	16.468	16.480	16.492	16.504	16.516	16.528
1580	16.539	16.551	16.563	16.575	16.587	16.599	16.611	16.623	16.634	16.646
1590	16.658	16.670	16.682	16.694	16.706	16.718	16.729	16.741	16.753	16.765
1600	16.777	16.789	16.801	16.812	16.824	16.836	16.848	16.860	16.872	16.884
1610	16.895	16.907	16.919	16.931	16.943	16.954	16.966	16.978	16.990	17.002
1620	17.013	17.025	17.037	17.049	17.061	17.072	17.084	17.096	17.108	17.120
1630	17.131	17.143	17.155	17.167	17.178	17.190	17.202	17.214	17.225	17.237
1640	17.249	17.261	17.272	17.284	17.296	17.308	17.319	17.331	17.343	17.355
1650	17.366	17.378	17.390	17.401	17.413	17.425	17.437	17.448	17.460	17.472
1660	17.483	17.495	17.507	17.518	17.530	17.542	17.553	17.565	17.577	17.589
1670	17.600	17.612	17.623	17.635	17.647	17.658	17.670	17.682	17.693	17.705
1680	17.717	17.728	17.740	17.751	17.763	17.775	17.786	17.798	17.809	17.821
1690	17.832	17.844	17.855	17.867	17.878	17.890	17.901	17.913	17.924	17.935
1700	17.947	17.959	17.970	17.982	17.993	18.004	18.016	18.027	18.039	18.050
1710	18.061	18.073	18.084	18.095	18.107	18.118	18.129	18.140	18.152	18.163
1720	18.174	18.185	18.196	18.208	18.219	18.230	18.241	18.252	18.263	18.274
1730	18.285	18.297	18.308	18.319	18.330	18.341	18.352	18.362	18.373	18.384
1740	18.395	18.406	18.417	18.428	18.439	18.449	18.460	18.471	18.482	18.493
1750	18.503	18.514	18.525	18.535	18.546	18.557	18.567	18.578	18.588	18.599
1760	18.609	18.620	18.630	18.641	18.651	18.661	18.672	18.682	18.693	18.703

TABLEAUX D'EQUIVALENCE mV - °C DES COUPLES THERMOELECTRIQUES



Thermocouple type:

R

Plage d'utilisation:

Couleur selon CEI 60584-3 (+ / -):

Alliages Couple (+ / -):

Tolerance selon CEI 60584-3

Tolerance selon MC96.1

FEM (mV) en fonction de la température:

0 à +1600°C

Orange / Blanc

Platine-Rhodium(13%) / Platine

Classe 1: ±1.0°C de 0 à +1100°C & ±1+0.003.(T°-1100) de 1100 à 1600°C

Classe 2: ±1.5°C de 0 à +600°C & ±0.0025xT° de 600 à 1600°C

Special Limit: 0,6°C ou 0,1%

Standard: 1,5°C ou 0,25%

°C	0	1	2	3	4	5	6	7	8	9	10
-40	-0.226	-0.223	-0.219	-0.215	-0.211	-0.208	-0.204	-0.200	-0.196	-0.192	-0.188
-30	-0.188	-0.184	-0.180	-0.175	-0.171	-0.167	-0.163	-0.158	-0.154	-0.150	-0.145
-20	-0.145	-0.141	-0.137	-0.132	-0.128	-0.123	-0.119	-0.114	-0.109	-0.105	-0.100
-10	-0.100	-0.095	-0.091	-0.086	-0.081	-0.076	-0.071	-0.066	-0.061	-0.056	-0.051
0	-0.051	-0.046	-0.041	-0.036	-0.031	-0.026	-0.021	-0.016	-0.011	-0.005	0.000

°C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
0	0.000	0.005	0.011	0.016	0.021	0.027	0.032	0.038	0.043	0.049	0.054
10	0.054	0.060	0.065	0.071	0.077	0.082	0.088	0.094	0.100	0.105	0.111
20	0.111	0.117	0.123	0.129	0.135	0.141	0.147	0.153	0.159	0.165	0.171
30	0.171	0.177	0.183	0.189	0.195	0.201	0.207	0.214	0.220	0.226	0.232
40	0.232	0.239	0.245	0.251	0.258	0.264	0.271	0.277	0.284	0.290	0.296
50	0.296	0.303	0.310	0.316	0.323	0.329	0.336	0.343	0.349	0.356	0.363
60	0.363	0.369	0.376	0.383	0.390	0.397	0.403	0.410	0.417	0.424	0.431
70	0.431	0.438	0.445	0.452	0.459	0.466	0.473	0.480	0.487	0.494	0.501
80	0.501	0.508	0.516	0.523	0.530	0.537	0.544	0.552	0.559	0.566	0.573
90	0.573	0.581	0.588	0.595	0.603	0.610	0.618	0.625	0.632	0.640	0.647
100	0.647	0.655	0.662	0.670	0.677	0.685	0.693	0.700	0.708	0.715	0.723
110	0.723	0.731	0.738	0.746	0.754	0.761	0.769	0.777	0.785	0.792	0.800
120	0.800	0.808	0.816	0.824	0.832	0.839	0.847	0.855	0.863	0.871	0.879
130	0.879	0.887	0.895	0.903	0.911	0.919	0.927	0.935	0.943	0.951	0.959
140	0.959	0.967	0.976	0.984	0.992	1.000	1.008	1.016	1.025	1.033	1.041
150	1.041	1.049	1.058	1.066	1.074	1.082	1.091	1.099	1.107	1.116	1.124
160	1.124	1.132	1.141	1.149	1.158	1.166	1.175	1.183	1.191	1.200	1.208
170	1.208	1.217	1.225	1.234	1.242	1.251	1.260	1.268	1.277	1.285	1.294
180	1.294	1.303	1.311	1.320	1.329	1.337	1.346	1.355	1.363	1.372	1.381
190	1.381	1.389	1.398	1.407	1.416	1.425	1.434	1.442	1.451	1.460	1.469
200	1.469	1.477	1.486	1.495	1.504	1.513	1.522	1.531	1.540	1.549	1.558
210	1.558	1.567	1.575	1.584	1.593	1.602	1.611	1.620	1.629	1.639	1.648
220	1.648	1.657	1.666	1.675	1.684	1.693	1.702	1.711	1.720	1.729	1.739
230	1.739	1.748	1.757	1.766	1.775	1.784	1.794	1.803	1.812	1.821	1.831
240	1.831	1.840	1.849	1.858	1.868	1.877	1.886	1.895	1.905	1.914	1.923
250	1.923	1.933	1.942	1.951	1.961	1.970	1.980	1.989	1.998	2.008	2.017
260	2.017	2.027	2.036	2.046	2.055	2.064	2.074	2.083	2.093	2.102	2.112
270	2.112	2.121	2.131	2.140	2.150	2.159	2.169	2.178	2.188	2.198	2.207
280	2.207	2.217	2.226	2.236	2.246	2.255	2.265	2.275	2.284	2.294	2.304
290	2.304	2.313	2.323	2.333	2.342	2.352	2.362	2.371	2.381	2.391	2.401
300	2.401	2.410	2.420	2.430	2.440	2.449	2.459	2.469	2.479	2.488	2.498
310	2.498	2.508	2.518	2.528	2.538	2.547	2.557	2.567	2.577	2.587	2.597
320	2.597	2.607	2.617	2.626	2.636	2.646	2.656	2.666	2.676	2.686	2.696
330	2.696	2.706	2.716	2.726	2.736	2.746	2.756	2.766	2.776	2.786	2.796
340	2.796	2.806	2.816	2.826	2.836	2.846	2.856	2.866	2.876	2.886	2.896
350	2.896	2.906	2.916	2.926	2.937	2.947	2.957	2.967	2.977	2.987	2.997
360	2.997	3.007	3.018	3.028	3.038	3.048	3.058	3.068	3.079	3.089	3.099
370	3.099	3.109	3.119	3.130	3.140	3.150	3.160	3.171	3.181	3.191	3.201
380	3.201	3.212	3.222	3.232	3.242	3.253	3.263	3.273	3.284	3.294	3.304
390	3.304	3.315	3.325	3.335	3.346	3.356	3.366	3.377	3.387	3.397	3.408
400	3.408	3.418	3.428	3.439	3.449	3.460	3.470	3.480	3.491	3.501	3.512
410	3.512	3.522	3.533	3.543	3.553	3.564	3.574	3.585	3.595	3.606	3.616
420	3.616	3.627	3.637	3.648	3.658	3.669	3.679	3.690	3.700	3.711	3.721
430	3.721	3.732	3.742	3.753	3.764	3.774	3.785	3.795	3.806	3.816	3.827
440	3.827	3.838	3.848	3.859	3.869	3.880	3.891	3.901	3.912	3.922	3.933
450	3.933	3.944	3.954	3.965	3.976	3.986	3.997	4.008	4.018	4.029	4.040
460	4.040	4.050	4.061	4.072	4.083	4.093	4.104	4.115	4.125	4.136	4.147
470	4.147	4.158	4.168	4.179	4.190	4.201	4.211	4.222	4.233	4.244	4.255
480	4.255	4.265	4.276	4.287	4.298	4.309	4.319	4.330	4.341	4.352	4.363
490	4.363	4.373	4.384	4.395	4.406	4.417	4.428	4.439	4.449	4.460	4.471
500	4.471	4.482	4.493	4.504	4.515	4.526	4.537	4.548	4.558	4.569	4.580
510	4.580	4.591	4.602	4.613	4.624	4.635	4.646	4.657	4.668	4.679	4.690
520	4.690	4.701	4.712	4.723	4.734	4.745	4.756	4.767	4.778	4.789	4.800
530	4.800	4.811	4.822	4.833	4.844	4.855	4.866	4.877	4.888	4.899	4.910
540	4.910	4.922	4.933	4.944	4.955	4.966	4.977	4.988	4.999	5.010	5.021
550	5.021	5.033	5.044	5.055	5.066	5.077	5.088	5.099	5.111	5.122	5.133
560	5.133	5.144	5.155	5.166	5.178	5.189	5.200	5.211	5.222	5.234	5.245
570	5.245	5.256	5.267	5.279	5.290	5.301	5.312	5.323	5.335	5.346	5.357
580	5.357	5.369	5.380	5.391	5.402	5.414	5.425	5.436	5.448	5.459	5.470
590	5.470	5.481	5.493	5.504	5.515	5.527	5.538	5.549	5.561	5.572	5.583
600	5.583	5.595	5.606	5.618	5.629	5.640	5.652	5.663	5.674	5.686	5.697
610	5.697	5.709	5.720	5.731	5.743	5.754	5.766	5.777	5.789	5.800	5.812
620	5.812	5.823	5.834	5.846	5.857	5.869	5.880	5.892	5.903	5.915	5.926
630	5.926	5.938	5.949	5.961	5.972	5.984	5.995	6.007	6.018	6.030	6.041
640	6.041	6.053	6.065	6.076	6.088	6.099	6.111	6.122	6.134	6.146	6.157
650	6.157	6.169	6.180	6.192	6.204	6.215	6.227	6.238	6.250	6.262	6.273
660	6.273	6.285	6.297	6.308	6.320	6.332	6.343	6.355	6.367	6.378	6.390
670	6.390	6.402	6.413	6.425	6.437	6.448	6.460	6.472	6.484	6.495	6.507
680	6.507	6.519	6.531	6.542	6.554	6.566	6.578	6.589	6.601	6.613	6.625
690	6.625	6.636	6.648	6.660	6.672	6.684	6.695	6.707	6.719	6.731	6.743
700	6.743	6.755	6.766	6.778	6.790	6.802	6.814	6.826	6.838	6.849	6.861
710	6.861	6.873	6.885	6.897	6.909	6.921	6.933	6.945	6.956	6.968	6.980
720	6.980	6.992	7.004	7.016	7.028	7.040	7.052	7.064	7.076	7.088	7.100
730	7.100	7.112	7.124	7.136	7.148	7.160	7.172	7.184	7.196	7.208	7.220
740	7.220	7.232	7.244	7.256	7.268	7.280	7.292	7.304	7.316	7.328	7.340
750	7.340	7.352	7.364	7.376	7.388	7.401	7.413	7.425	7.437	7.449	7.461
760	7.461	7.473	7.485	7.498	7.510	7.522	7.534	7.546	7.558	7.570	7.583
770	7.583	7.595	7.607	7.619	7.631	7.644	7.656	7.668	7.680	7.692	7.705
780	7.705	7.717	7.729	7.741	7.753	7.766	7.778	7.790	7.802	7.815	7.827
790	7.827	7.839	7.851	7.864	7.876	7.888	7.901	7.913	7.925	7.938	7.950
800	7.950	7.962	7.974	7.987	7.999	8.011	8.024	8.036	8.048	8.061	8.073
810	8.073	8.086	8.098	8.110	8.123	8.135	8.147	8.160	8.172	8.185	8.197
820	8.197	8.209	8.222	8.234	8.247	8.259	8.272	8.284	8.296	8.309	8.321
830	8.321	8.334	8.346	8.359	8.371	8.384	8.396	8.409	8.421	8.434	8.446
840	8.446	8.459	8.471	8.484	8.496	8.509	8.521	8.534	8.546	8.559	8.571

°C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1
850	8.571	8.584	8.597	8.609	8.622	8.634	8.647	8.659	8.672	8.685
860	8.697	8.710	8.722	8.735	8.748	8.760	8.773	8.785	8.798	8.811
870	8.823	8.836	8.849	8.861	8.874	8.887	8.899	8.912	8.925	8.937
880	8.957	8.970	8.983	8.995	9.008	9.021	9.034	9.047	9.059	9.072
890	9.077	9.090	9.103	9.115	9.128	9.141	9.154	9.167	9.179	9.192
900	9.205	9.218	9.230	9.243	9.256	9.269	9.282	9.294	9.307	9.320
910	9.333	9.346	9.359	9.371	9.384	9.397	9.410	9.423	9.436	9.448
920	9.461	9.474	9.487	9.500	9.513	9.526	9.539	9.552	9.565	9.578
930	9.590	9.603	9.616	9.629	9.642	9.655	9.668	9.681	9.694	9.707
940	9.720	9.733	9.746	9.759	9.772	9.785	9.798	9.811	9.824	9.837
950	9.850	9.863	9.876	9.889	9.902	9.915	9.928	9.941	9.954	9.967
960	9.980	9.993	10.006	10.019	10.032	10.046	10.059	10.072	10.085	10.098
970	10.117	10.124	10.131	10.140	10.153	10.170	10.190	10.203	10.216	10.229
980	10.248	10.261	10.274	10.287	10.300	10.313	10.326	10.339	10.352	10.365
990	10.374	10.387	10.400	10.413	10.427	10.440	10.453	10.466	10.480	10.493
1000	10.506	10.519	10.532	10.546	10.559	10.572	10.586	10.599	10.612	10.625
1010	10.638	10.652	10.665	10.678	10.692	10.705	10.718	10.731	10.745	10.758
1020	10.771	10.785	10.798	10.811	10.825	10.838	10.851	10.865	10.878	10.891
1030	10.905	10.918	10.932	10.945	10.958	10.972	10.985	10.998	11.012	11.025
1040	11.039	11.052	11.065	11.079	11.092	11.106	11.119	11.132	11.146	11.159
1050	11.173	11.186	11.200	11.213	11.227	11.240	11.253	11.267	11.280	11.294
1060	11.307	11.321	11.334	11.348	11.361	11.375	11.388	11.402	11.415	11.429
1070	11.478	11.591	11.605	11.618	11.632	11.646	11.659	11.673	11.686	11.700
1080	11.714	11.727	11.741	11.754	11.768	11.782	11.795	11.809	11.822	11.836
1100	11.850	11.863	11.877	11.891	11.904	11.918	11.931	11.945	11.959	11.972
1110	11.986	12.000	12.013	12.027	12.041	12.054	12.068	12.082	12.096	12.109
1120	12.123	12.137	12.150	12.164	12.178	12.191	12.205	12.219	12.233	12.246
1130	12.260	12.274	12.288	12.301	12.315	12.329	12.342	12.356	12.370	12.384
1140	12.397	12.411	12.425	12.439	12.453	12.466	12.480	12.494	12.508	12.522
1150	12.535	12.549	12.563	12.577	12.590	12.604	12.618	12.632	12.646	12.659
1160	12.673	12.687	12.701	12.715	12.729	12.742	12.756	12.770	12.784	12.797
1170	12.812	12.825	12.839	12.853	12.867	12.881	12.895	12.909	12.923	12.937
1180	12.950	12.964	12.978	12.992	13.006	13.019	13.033	13.047	13.061	13.075
1190	13.089	13.103	13.117	13.131	13.145	13.158	13.172	13.186	13.200	13.214
1200	13.228	13.242	13.256	13.270	13.284	13.298	13.311	13.325	13.339	13.353
1210	13.367	13.381	13.395	13.409	13.423	13.437	13.451	13.465	13.479	13.493
1220	13.507	13.521	13.535	13.549	13.563	13.577	13.590	13.604	13.618	13.632
1230	13.646	13.660	13.674	13.688	13.702	13.716	13.730	13.744	13.758	13.772
1240	13.786	13.800	13.814	13.828	13.842	13.856	13.870	13.884	13.898	13.912
1250	13.926	13.940	13.954	13.968	13.982	13.996	14.010	14.024	14.038	14.052
1260	14.066	14.081	14.095	14.109	14.123	14.137	14.151	14.165	14.179	14.193
1270	14.207	14.221	14.235	14.249	14.263	14.277	14.291	14.305	14.319	14.333
1280	14.347	14.361	14.375	14.390	14.404	14.418	14.432	14.446	14.460	14.474
1290	14.488	14.502	14.516	14.530	14.544	14.558	14.572	14.586	14.601	14.615
1300	14.629	14.643	14.657	14.671	14.685	14.699	14.713	14.727	14.741	14.755
1310	14.770	14.784	14.798	14.812	14.826	14.840	14.854	14.868	14.882	14.896
1320	14.911	14.925	14.939	14.953	14.967	14.981	14.995	15.009	15.023	15.037
1330	15.052	15.066	15.080	15.094	15.108	15.122	15.136	15.150	15.164	15.178
1340	15.193	15.207	15.221	15.235	15.249	15.263	15.277	15.291	15.306	15.320
1350	15.334	15.348	15.362	15.376	15.390	15.404	15.419	15.433	15.447	15.461
1360	15.475	15.489	15.503	15.517	15.531	15.546	15.560	15.574	15.588	15.602
1370	15.616	15.630	15.645	15.659	15.673	15.687	15.701	15.715	15.729	15.743
1380	15.758	15.772	15.786	15.800	15.814	15.828	15.842	15.856	15.871	15.885
1390	15.899	15.913	15.927	15.941	15.955	15.969	15.984	15.998	16.012	16.026
1400	16.040	16.054	16.068	16.082	16.097	16.111	16.125	16.139	16.153	16.167
1410	16.181	16.196	16.210	16.224	16.238	16.252	16.266	16.280	16.294	16.308
1420	16.323	16.337	16.351	16.365	16.379	16.393	16.407	16.422	16.436	16.450
1430	16.464	16.478	16.492	16.506	16.520	16.534	16.549	16.563	16.577	16.591
1440	16.605	16.619	16.633	16.647	16.662	16.676	16.690	16.704	16.718	16.733
1450	16.746	16.760	16.774	16.789	16.803	16.817	16.831	16.845	16.859	16.873
1460	16.887	16.901	16.915	16.930	16.944	16.958	16.972	16.986	17.000	17.014
1470	17.028	17.042	17.056	17.071	17.085	17.099	17.113	17.127	17.141	17.155
1480	17.169	17.183	17.197	17.211	17.225	17.240	17.254	17.268	17.282	17.296
1490	17.310	17.324	17.338	17.352	17.366	17.380	17.394	17.408	17.423	17.437
1500	17.451	17.465	17.479	17.493	17.507	17.521	17.535	17.549	17.563	17.577
1510	17.591	17.605	17.619	17.633	17.647	17.661	17.675	17.690	17.704	17.718
1520	17.732	17.746	17.760	17.774	17.788	17.802	17.816	17.830	17.844	17.858
1530	17.872	17.886	17.900	17.914	17.928	17.942	17.956	17.970	17.984	17.998
1540	18.012	18.026	18.040	18.054	18.068	18.082	18.096	18.110	18.124	18.138
1550	18.152	18.166	18.180	18.194	18.208	18.222	18.236	18.250	18.264	18.278
1560	18.292	18.306	18.320	18.334	18.348	18.362	18.376	18.390	18.404	18.418
1570	18.431	18.445	18.459	18.473	18.487	18.501	18.515	18.529	18.543	18.557
1580	18.576	18.590	18.604	18.618	18.632	18.646	18.660	18.674	18.688	18.702
1590	18.710	18.724	18.738	18.752	18.766	18.779	18.793	18.807	18.821	18.835
1600	18.849	18.863	18.877	18.891	18.904	18.918	18.932	18.946	18.960	18.974
1610	18.988	18.992	19.015	19.029	19.043	19.057	19.071	19.085	19.098	19.112
1620	19.126	19.140	19.154	19.168	19.181	19.195	19.208	19.223	19.237	19.251
1630	19.264	19.278	19.292	19.306	19.319	19.333	19.347	19.361	19.375	19.389
1640	19.402	19.416	19.430	19.444	19.457	19.471	19.485	19.499	19.512	19.526
1650	19.540	19.554	19.567	19.581	19.595	19.609	19.622	19.636	19.650	19.663
1660	19.677	19.691	19.705	19.718	19.732	19.746	19.759	19.773	19.787	19.800
1670	19.814	19.828	19.841	19.855	19.869	19.882	19.896	19.910	19.923	19.937
1680	19.951	19.964	19.978	19.992	20.005	20.019	20.032	20.046	20.060	20.073
1690	20.087	20.100	20.114	20.127	20.141	20.154	20.168	20.181	20.195	20.208
1700	20.222	20.235	20.249	20.262	20.276	20.289	20.302	20.316	20.329	20.342
1710	20.356	20.369	20.382	20.396	20.409	20.422	20.436	20.449	20.462	20.475
1720	20.488	20.502	20.515	20.528	20.541	20.554	20.567	20.581	20.594	20.607
1730	20.620	20.633	20.646	20.659	20.672	20.685	20.698	20.711	20.724	20.736
1740	20.749	20.762	20.775	20.788	20.801	20.813	20.826	20.839	20.852	20.865
1750	20.877	20.890	20.902	20.915	20.928	20.940	20.953	20.966	20.978	20.990
1760	21.003	21.015	21.027	21.040	21.052	21.065	21.077	21.089	21.101	21.113

TABLEAUX D'EQUIVALENCE $mV - ^\circ C$ DES COUPLES THERMOELECTRIQUES



Thermocouple type:

Plage d'utilisation:

Couleur selon CEI 60584-3 (+ / -):

Alliages Couple (+ / -):

Tolerance selon CEI 60584-3

Tolerance selon MC96.1

+600 à +1700°C

Gris / Blanc

Platine-Rhodium(30%) / Platine-Rhodium(6%)

Classe 1:

Classe 2:

Special Limit:

Standard:

/

$\pm 0.0025 T^\circ$ de 600 à +1700°C

/

0,5°C au dessus de 800°C

FEM (mV) en fonction de la température:

°C	0	1	2	3	4	5	6	7	8	9	10
0	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.002	-0.002	-0.002
10	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.003	-0.003	-0.003
20	-0.003	-0.003	-0.003	-0.003	-0.003	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
30	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.001	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002
50	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.006
60	0.006	0.007	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.011	0.011
70	0.011	0.012	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017
80	0.017	0.018	0.019	0.020	0.020	0.021	0.022	0.022	0.023	0.024	0.025
90	0.025	0.026	0.026	0.027	0.028	0.029	0.030	0.031	0.031	0.032	0.033
100	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.042	0.043
110	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.050	0.051	0.052	0.053
120	0.053	0.055	0.056	0.057	0.058	0.059	0.060	0.062	0.063	0.064	0.065
130	0.065	0.066	0.068	0.069	0.070	0.072	0.073	0.074	0.075	0.077	0.078
140	0.078	0.079	0.081	0.082	0.084	0.085	0.086	0.088	0.089	0.091	0.092
150	0.092	0.094	0.095	0.096	0.098	0.099	0.101	0.102	0.104	0.106	0.107
160	0.107	0.109	0.110	0.112	0.113	0.115	0.117	0.118	0.120	0.122	0.123
170	0.123	0.125	0.127	0.128	0.130	0.132	0.134	0.135	0.137	0.139	0.141
180	0.141	0.142	0.144	0.146	0.148	0.150	0.151	0.153	0.155	0.157	0.159
190	0.159	0.161	0.163	0.165	0.166	0.168	0.170	0.172	0.174	0.176	0.178
200	0.178	0.180	0.182	0.184	0.186	0.188	0.190	0.192	0.195	0.197	0.199
210	0.199	0.201	0.203	0.205	0.207	0.209	0.212	0.214	0.216	0.218	0.220
220	0.220	0.222	0.225	0.227	0.229	0.231	0.234	0.236	0.238	0.241	0.243
230	0.243	0.245	0.248	0.250	0.252	0.255	0.257	0.259	0.262	0.264	0.267
240	0.267	0.269	0.271	0.274	0.276	0.279	0.281	0.284	0.286	0.289	0.291
250	0.291	0.294	0.296	0.299	0.301	0.304	0.307	0.309	0.312	0.314	0.317
260	0.317	0.320	0.322	0.325	0.328	0.330	0.333	0.336	0.338	0.341	0.344
270	0.344	0.347	0.349	0.352	0.355	0.358	0.360	0.363	0.366	0.369	0.372
280	0.372	0.375	0.377	0.380	0.383	0.386	0.389	0.392	0.395	0.398	0.401
290	0.401	0.404	0.407	0.410	0.413	0.416	0.419	0.422	0.425	0.428	0.431
300	0.431	0.434	0.437	0.440	0.443	0.446	0.449	0.452	0.455	0.458	0.462
310	0.462	0.465	0.468	0.471	0.474	0.478	0.481	0.484	0.487	0.490	0.494
320	0.494	0.497	0.500	0.503	0.507	0.510	0.513	0.517	0.520	0.523	0.527
330	0.527	0.530	0.533	0.537	0.540	0.544	0.547	0.550	0.554	0.557	0.561
340	0.561	0.564	0.568	0.571	0.575	0.578	0.582	0.585	0.589	0.592	0.596
350	0.596	0.599	0.603	0.607	0.610	0.614	0.617	0.621	0.625	0.628	0.632
360	0.632	0.636	0.639	0.643	0.647	0.650	0.654	0.658	0.662	0.665	0.669
370	0.669	0.673	0.677	0.680	0.684	0.688	0.692	0.696	0.700	0.703	0.707
380	0.707	0.711	0.715	0.719	0.723	0.727	0.731	0.735	0.738	0.742	0.746
390	0.746	0.750	0.754	0.758	0.762	0.766	0.770	0.774	0.778	0.782	0.787
400	0.787	0.791	0.795	0.799	0.803	0.807	0.811	0.815	0.819	0.824	0.828
410	0.828	0.832	0.836	0.840	0.844	0.849	0.853	0.857	0.861	0.866	0.870
420	0.870	0.874	0.878	0.883	0.887	0.891	0.896	0.900	0.904	0.909	0.913
430	0.913	0.917	0.922	0.926	0.930	0.935	0.939	0.944	0.948	0.953	0.957
440	0.957	0.961	0.966	0.970	0.975	0.979	0.984	0.988	0.993	0.997	1.002
450	1.002	1.007	1.011	1.016	1.020	1.025	1.030	1.034	1.039	1.043	1.048
460	1.048	1.053	1.057	1.062	1.067	1.071	1.076	1.081	1.086	1.090	1.095
470	1.095	1.100	1.105	1.109	1.114	1.119	1.124	1.129	1.133	1.138	1.143
480	1.143	1.148	1.153	1.158	1.163	1.167	1.172	1.177	1.182	1.187	1.192
490	1.192	1.197	1.202	1.207	1.212	1.217	1.222	1.227	1.232	1.237	1.242
500	1.242	1.247	1.252	1.257	1.262	1.267	1.272	1.277	1.282	1.288	1.293
510	1.293	1.298	1.303	1.308	1.313	1.318	1.324	1.329	1.334	1.339	1.344
520	1.344	1.349	1.353	1.358	1.363	1.367	1.371	1.376	1.381	1.387	1.392
530	1.392	1.402	1.408	1.413	1.418	1.424	1.429	1.435	1.440	1.445	1.451
540	1.451	1.456	1.462	1.467	1.472	1.478	1.483	1.489	1.494	1.500	1.505
550	1.505	1.511	1.516	1.522	1.527	1.533	1.539	1.544	1.550	1.555	1.561
560	1.561	1.566	1.572	1.578	1.583	1.589	1.595	1.600	1.606	1.612	1.617
570	1.617	1.623	1.629	1.634	1.640	1.646	1.652	1.657	1.663	1.669	1.675
580	1.675	1.680	1.686	1.692	1.698	1.704	1.709	1.715	1.721	1.727	1.733
590	1.733	1.739	1.745	1.750	1.756	1.762	1.768	1.774	1.780	1.786	1.792
600	1.792	1.798	1.804	1.810	1.816	1.822	1.828	1.834	1.840	1.846	1.852
610	1.852	1.858	1.864	1.870	1.876	1.882	1.888	1.894	1.901	1.907	1.913
620	1.913	1.919	1.925	1.931	1.937	1.944	1.950	1.956	1.962	1.968	1.975
630	1.975	1.981	1.987	1.993	1.999	2.006	2.012	2.018	2.025	2.031	2.037
640	2.037	2.043	2.050	2.056	2.062	2.069	2.075	2.082	2.088	2.094	2.101
650	2.101	2.107	2.113	2.120	2.126	2.133	2.139	2.146	2.152	2.158	2.165
660	2.165	2.171	2.178	2.184	2.191	2.197	2.204	2.210	2.217	2.224	2.230
670	2.230	2.237	2.243	2.250	2.256	2.263	2.270	2.276	2.283	2.289	2.296
680	2.296	2.303	2.309	2.316	2.323	2.329	2.336	2.343	2.350	2.356	2.363
690	2.363	2.370	2.376	2.383	2.390	2.397	2.403	2.410	2.417	2.424	2.431
700	2.431	2.437	2.444	2.451	2.458	2.465	2.472	2.479	2.485	2.492	2.499
710	2.499	2.506	2.513	2.520	2.527	2.534	2.541	2.548	2.555	2.562	2.569
720	2.569	2.576	2.583	2.590	2.597	2.604	2.611	2.618	2.625	2.632	2.639
730	2.639	2.646	2.653	2.660	2.667	2.674	2.681	2.688	2.696	2.703	2.710
740	2.710	2.717	2.724	2.731	2.738	2.746	2.753	2.760	2.767	2.775	2.782
750	2.782	2.789	2.796	2.803	2.811	2.818	2.825	2.832	2.840	2.847	2.854
760	2.854	2.862	2.869	2.876	2.884	2.891	2.898	2.906	2.913	2.921	2.928
770	2.928	2.935	2.943	2.950	2.958	2.965	2.973	2.980	2.987	2.995	3.002
780	3.002	3.010	3.017	3.025	3.032	3.040	3.047	3.055	3.062	3.070	3.078
790	3.078	3.085	3.093	3.100	3.108	3.116	3.123	3.131	3.138	3.146	3.154
800	3.154	3.161	3.169	3.177	3.184	3.192	3.200	3.207	3.215	3.223	3.230
810	3.230	3.238	3.246	3.254	3.261	3.269	3.277	3.285	3.292	3.300	3.308
820	3.308	3.316	3.324	3.331	3.339	3.347	3.355	3.363	3.371	3.379	3.386
830	3.386	3.394	3.402	3.410	3.418	3.426	3.434	3.442	3.450	3.458	3.466
840	3.466	3.474	3.482	3.490	3.498	3.506	3.514	3.522	3.530	3.538	3.546
850	3.546	3.554	3.562	3.570	3.578	3.586	3.594	3.602	3.610	3.618	3.626
860	3.626	3.634	3.643	3.651	3.659	3.667	3.675	3.683	3.692	3.700	3.708
870	3.708	3.716	3.724	3.732	3.741	3.749	3.757	3.765	3.774	3.782	3.790
880	3.790	3.798	3.807	3.815	3.823	3.832	3.840	3.848	3.857	3.865	3.873
890	3.873	3.882	3.890	3.898	3.907	3.915	3.923	3.932	3.940	3.949	3.957
900	3.957	3.965	3.974	3.982	3.991	3.999	4.008	4.016	4.024	4.033	4.041

°C	0	1	2	3	4	5	6	7	8	9
910	4.041	4.050	4.058	4.067	4.075	4.084	4.093	4.101	4.110	4.118
920	4.127	4.135	4.144	4.152	4.161	4.170	4.178	4.187	4.195	4.204
930	4.213	4.221	4.230	4.239	4.247	4.256	4.265	4.273	4.282	4.291
940	4.299	4.308	4.317	4.326	4.334	4.343	4.352	4.360	4.369	4.378
950	4.387	4.396	4.404	4.413	4.422	4.431	4.440	4.448	4.457	4.466
960	4.475	4.484	4.493	4.501	4.510	4.519	4.528	4.537	4.546	4.555
970	4.564	4.573	4.582	4.591	4.599	4.608	4.617	4.626	4.635	4.644
980	4.653	4.662	4.671	4.680	4.689	4.698	4.707	4.716	4.725	4.734
990	4.743	4.753	4.762	4.771	4.780	4.789	4.798	4.807	4.816	4.825
1000	4.834	4.843	4.853	4.862	4.871	4.880	4.889	4.898	4.908	4.917
1010	4.926	4.935	4.944	4.954	4.963	4.972	4.981	4.990	5.000	5.009
1020	5.018	5.027	5.037	5.046	5.055	5.065	5.074	5.083	5.092	5.102
1030	5.111	5.120	5.130	5.139	5.148	5.158	5.167	5.176	5.186	5.195
1040	5.205	5.214	5.223	5.233	5.242	5.252	5.261	5.270	5.280	5.290
1050	5.299	5.308	5.318	5.327	5.337	5.346	5.356	5.365	5.375	5.385
1060	5.394	5.403	5.413	5.422	5.432	5.441	5.451	5.460	5.470	5.480
1070	5.489	5.499	5.508	5.518	5.528	5.537	5.547	5.556	5.566	5.576
1080	5.585	5.595	5.605	5.614	5.624	5.634	5.643	5.653	5.663	5.672
1090	5.682	5.692	5.702	5.711	5.721	5.731	5.740	5.750	5.760	5.770
1100	5.780	5.789	5.799	5.809	5.819	5.828	5.838	5.848	5.858	5.868
1110	5.878	5.887	5.897	5.907	5.917	5.927	5.937	5.947	5.956	5.966
1120	5.976	5.986	5.996	6.006	6.016	6.026	6.036	6.046	6.055	6.065
1130	6.075	6.085	6.095	6.105	6.115	6.125	6.135	6.145	6.155	6.165
1140	6.175	6.185	6.195	6.205	6.215	6.225	6.235	6.245	6.256	6.266
1150	6.276	6.286	6.296	6.306	6.316	6.326	6.336	6.346	6.356	6.367
1160	6.377	6.387	6.397	6.407	6.417	6.427	6.438	6.448	6.458	6.468
1170	6.478	6.488	6.499	6.509	6.519	6.529	6.539	6.550	6.560	6.570
1180	6.580	6.591	6.601	6.611	6.621	6.632	6.642	6.652	6.663	6.673
1190	6.683	6.693	6.704	6.714	6.724	6.735	6.745	6.755	6.766	6.776
1200	6.786	6.797	6.807	6.818	6.828	6.838	6.849	6.859	6.869	6.880
1210	6.890	6.901	6.911	6.922	6.932	6.942	6.953	6.963	6.974	6.984
1220	6.995	7.005	7.016	7.026	7.037	7.047	7.058	7.068	7.079	7.089
1230	7.100	7.110	7.121	7.131	7.142	7.152	7.163	7.173	7.184	7.194
1240	7.205	7.216	7.226	7.237	7.247	7.258	7.269	7.279	7.290	7.300
1250	7.311	7.322	7.332	7.343	7.353	7.364	7.375	7.385	7.396	7.407
1260	7.417	7.428	7.439	7.449	7.460	7.471	7.482	7.492	7.503	7.514
1270	7.524	7.535	7.546	7.557	7.567	7.578	7.589	7.600	7.610	7.621
1280	7.632	7.643	7.653	7.664	7.675	7.686	7.697	7.707	7.718	7.729
1290	7.740	7.751	7.761	7.772	7.783	7.794	7.805	7.816	7.827	7.837
1300	7.848	7.859	7.870	7.881	7.892	7.903	7.914	7.924	7.935	7.946
1310	7.967	7.978	7.979	7.990	8.001	8.012	8.023	8.034	8.045	8.056
1320	8.066	8.077	8.088	8.099	8.110	8.121	8.132	8.143	8.154	8.165
1330	8.176	8.187	8.198	8.209	8.220	8.231	8.242	8.253	8.264	8.275
1340	8.286	8.298	8.309	8.320	8.331	8.342	8.353	8.364	8.375	8.386
1350	8.397	8.408	8.419	8.430	8.441	8.453	8.464	8.475	8.486	8.497
1360	8.508	8.519	8.530	8.542	8.553	8.564	8.575	8.586	8.597	8.608
1370	8.620	8.631	8.642	8.653	8.664	8.675	8.687	8.698	8.709	8.720
1380	8.731	8.743	8.754	8.765	8.776	8.787	8.799	8.810	8.821	8.832
1390	8.844	8.855	8.866	8.877	8.889	8.900	8.911	8.922	8.934	8.945
1400	8.956	8.967	8.979	8.990	9.001	9.013	9.024	9.035	9.047	9.058
1410	9.069	9.080	9.092	9.103	9.114	9.126	9.137	9.148	9.160	9.171
1420	9.182	9.194	9.205	9.216	9.228	9.239	9.251	9.262	9.273	9.285
1430	9.296	9.307	9.319	9.330	9.342	9.353	9.364	9.376	9.387	9.398
1440	9.410	9.421	9.433	9.444	9.456	9.467	9.478	9.490	9.501	9.513
1450	9.524	9.536	9.547	9.558	9.570	9.581	9.593	9.604	9.616	9.627
1460	9.639	9.650	9.662	9.673	9.684	9.696	9.707	9.719	9.730	9.742
1470	9.753	9.765	9.776	9.788	9.799	9.811	9.822	9.834	9.845	9.857
1480	9.868	9.880	9.891	9.903	9.914	9.926	9.937	9.949	9.961	9.972
1490	9.984	9.995	10.007	10.018	10.030	10.041	10.053	10.064	10.076	10.088
1500	10.099	10.110	10.122	10.134	10.145	10.157	10.168	10.180	10.192	10.203
1510	10.215	10.226	10.238	10.249	10.261	10.273	10.284	10.296	10.307	10.319
1520	10.331	10.342	10.354	10.365	10.377	10.389	10.400	10.412	10.423	10.435
1530	10.447	10.458	10.470	10.482	10.493	10.505	10.516	10.528	10.540	10.551
1540	10.563	10.575	10.586	10.598	10.609	10.621	10.633	10.644	10.656	10.668
1550	10.679	10.690	10.703	10.714	10.726	10.738	10.749	10.761	10.773	10.784
1560	10.796	10.808	10.819	10.831	10.843	10.854	10.866	10.877	10.889	10.901
1570	10.913	10.924	10.936	10.948	10.959	10.971	10.983	10.994	11.006	11.018
1580	11.029	11.041	11.053	11.064	11.076	11.088	11.099	11.111	11.123	11.134
1590	11.146	11.158	11.169	11.181	11.193	11.205	11.216	11.228	11.240	11.251
1600	11.263	11.275	11.286	11.298	11.310	11.321	11.333	11.345	11.357	11.368
1610	11.380	11.392	11.403	11.415	11.427	11.438	11.450	11.462	11.474	11.485
1620	11.497	11.509	11.520	11.532	11.544	11.555	11.567	11.579	11.591	11.602
1630	11.614	11.626	11.637	11.649	11.661	11.673	11.684	11.696	11.708	11.719
1640	11.731	11.743	11.754	11.766	11.778	11.790	11.801	11.813	11.825	11.836
1650	11.848	11.860	11.871	11.883	11.895	11.907	11.918	11.930	11.942	11.953
1660	11.965	11.977	11.988	12.000	12.012	12.024	12.035	12.047	12.059	12.070
1670	12.082	12.094	12.105	12.117	12.129	12.141	12.152	12.164	12.176	12.187
1680	12.199	12.211	12.222	12.234	12.246	12.257	12.269	12.281	12.292	12.304
1690	12.316	12.327	12.339	12.351	12.363	12.374	12.386	12.398	12.409	12.421
1700	12.433	12.444	12.456	12.468	12.479	12.491	12.503	12.514	12.526	12.538
1710	12.549	12.561	12.572	12.584	12.596	12.607	12.619	12.631	12.642	12.654
1720	12.666	12.677	12.689	12.701	12.712	12.724	12.736	12.747	12.759	12.770
1730	12.782	12.794	12.805	12.817	12.829	12.840	12.852	12.863	12.875	12.887
1740	12.898	12.910	12.921	12.933	12.945	12.956	12.968	12.980	12.991	13.003
1750	13.014	13.026	13.037	13.049	13.061	13.072	13.084	13.095	13.107	13.119
1760	13.130	13.142	13.153	13.165	13.177	13.188	13.200	13.211	13.223	13.234
1770	13.246	13.257	13.269	13.280	13.292	13.304	13.315	13.327	13.338	13.350
1780	13.361	13.373	13.384	13.396	13.407	13.419	13.430	13.442	13.453	13.465
1790	13.476	13.488	13.499	13.511	13.522	13.534	13.545	13.557	13.568	13.580
1800	13.591	13.603	13.614	13.626	13.637	13.649	13.660	13.672	13.683	13.694
1810	13.706	13.717	13.729	13.740	13.752	13.763	13.775	13.786	13.797	13.808

TABLEAUX D'EQUIVALENCE mV - °C DES COUPLES THERMOELECTRIQUES



Thermocouple type:

Plage d'utilisation: -40 à +1200°C
Couleur selon CEI 60584-3 (+/-): Rose / Blanc
Alliages Couple (+/-): Nicrosil (Nickel-14,2% + Chrome-1,4% + Silicium) / Nisil (Nickel-4,4% + Silicium + Magnesium-0,1%)
Tolerance selon CEI 60584-3 Classe 1: $\pm 1.5^{\circ}\text{C}$ de -40 à +375°C & $\pm 0.004\text{xT}^{\circ}$ de 375 à 1000°C
Classe 2: $\pm 2.5^{\circ}\text{C}$ de -40 à +333°C & $\pm 0.0075\text{xT}^{\circ}$ de 333 à 1000°C
Tolerance selon MC96.1 Special Limit: 1,1°C ou 0,4%
Standard: 2,2°C ou 0,75% au dessus de 0°C & 2,2°C ou 2,0% au dessous de 0°C
FEM (mV) en fonction de la température:

N

°C	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
-260	-4,345	-4,345	-4,344	-4,344	-4,343	-4,342	-4,341	-4,340	-4,339	-4,337	-4,336
-250	-4,338	-4,334	-4,332	-4,330	-4,328	-4,326	-4,324	-4,321	-4,319	-4,318	-4,313
-240	-4,313	-4,310	-4,307	-4,304	-4,300	-4,297	-4,293	-4,289	-4,285	-4,281	-4,277
-230	-4,277	-4,273	-4,268	-4,263	-4,258	-4,254	-4,248	-4,243	-4,238	-4,232	-4,226
-220	-4,226	-4,221	-4,215	-4,209	-4,202	-4,196	-4,189	-4,183	-4,176	-4,169	-4,162
-210	-4,162	-4,154	-4,147	-4,140	-4,132	-4,124	-4,116	-4,108	-4,100	-4,091	-4,083
-200	-4,083	-4,074	-4,066	-4,057	-4,048	-4,038	-4,029	-4,020	-4,010	-4,000	-3,990
-190	-3,990	-3,980	-3,970	-3,960	-3,950	-3,939	-3,928	-3,918	-3,907	-3,898	-3,884
-180	-3,884	-3,873	-3,862	-3,850	-3,838	-3,827	-3,815	-3,803	-3,790	-3,778	-3,766
-170	-3,766	-3,753	-3,740	-3,728	-3,715	-3,702	-3,688	-3,675	-3,662	-3,648	-3,634
-160	-3,634	-3,621	-3,607	-3,593	-3,578	-3,564	-3,550	-3,535	-3,521	-3,506	-3,491
-150	-3,491	-3,476	-3,461	-3,446	-3,431	-3,415	-3,400	-3,384	-3,368	-3,352	-3,336
-140	-3,336	-3,320	-3,304	-3,288	-3,271	-3,255	-3,238	-3,221	-3,205	-3,188	-3,171
-130	-3,171	-3,153	-3,136	-3,119	-3,101	-3,084	-3,066	-3,048	-3,030	-3,012	-2,994
-120	-2,994	-2,976	-2,958	-2,939	-2,921	-2,902	-2,883	-2,865	-2,846	-2,827	-2,808
-110	-2,808	-2,789	-2,769	-2,750	-2,730	-2,711	-2,691	-2,672	-2,652	-2,632	-2,612
-100	-2,612	-2,592	-2,571	-2,551	-2,531	-2,510	-2,490	-2,469	-2,448	-2,428	-2,407
-90	-2,407	-2,386	-2,365	-2,344	-2,322	-2,301	-2,280	-2,258	-2,237	-2,215	-2,193
-80	-2,193	-2,172	-2,150	-2,128	-2,106	-2,084	-2,062	-2,039	-2,017	-1,995	-1,972
-70	-1,972	-1,950	-1,927	-1,905	-1,882	-1,859	-1,836	-1,813	-1,790	-1,767	-1,744
-60	-1,744	-1,721	-1,698	-1,674	-1,651	-1,627	-1,604	-1,580	-1,557	-1,533	-1,509
-50	-1,509	-1,485	-1,461	-1,438	-1,414	-1,390	-1,366	-1,341	-1,317	-1,293	-1,269
-40	-1,269	-1,244	-1,220	-1,195	-1,171	-1,146	-1,122	-1,097	-1,072	-1,048	-1,023
-30	-1,023	-0,998	-0,973	-0,948	-0,923	-0,898	-0,873	-0,848	-0,823	-0,798	-0,772
-20	-0,772	-0,747	-0,722	-0,696	-0,671	-0,646	-0,620	-0,595	-0,569	-0,544	-0,518
-10	-0,518	-0,492	-0,467	-0,441	-0,415	-0,390	-0,364	-0,338	-0,312	-0,286	-0,260
0	-0,260	-0,234	-0,209	-0,183	-0,157	-0,131	-0,104	-0,078	-0,052	-0,026	0,000

°C	0	1	2	3	4	5	6	7	8	9	10
0	0,000	0,026	0,052	0,078	0,104	0,130	0,156	0,182	0,208	0,235	0,261
10	0,261	0,287	0,313	0,340	0,366	0,393	0,419	0,446	0,472	0,499	0,525
20	0,525	0,552	0,578	0,605	0,632	0,659	0,685	0,712	0,739	0,766	0,793
30	0,793	0,820	0,847	0,874	0,901	0,928	0,955	0,983	1,010	1,037	1,065
40	1,065	1,092	1,119	1,147	1,174	1,202	1,229	1,257	1,284	1,312	1,340
50	1,340	1,368	1,395	1,423	1,451	1,479	1,507	1,535	1,563	1,591	1,619
60	1,619	1,647	1,675	1,703	1,732	1,760	1,788	1,817	1,845	1,873	1,902
70	1,902	1,930	1,959	1,988	2,016	2,045	2,074	2,102	2,131	2,160	2,189
80	2,189	2,218	2,247	2,276	2,305	2,334	2,363	2,392	2,421	2,450	2,480
90	2,480	2,509	2,538	2,568	2,597	2,626	2,656	2,685	2,715	2,744	2,774
100	2,774	2,804	2,833	2,863	2,893	2,923	2,953	2,983	3,012	3,042	3,072
110	3,072	3,102	3,133	3,163	3,193	3,223	3,253	3,283	3,314	3,344	3,374
120	3,374	3,405	3,435	3,466	3,496	3,527	3,557	3,588	3,619	3,649	3,680
130	3,680	3,711	3,742	3,772	3,803	3,834	3,865	3,896	3,927	3,958	3,989
140	3,989	4,020	4,051	4,083	4,114	4,145	4,176	4,208	4,239	4,270	4,302
150	4,302	4,333	4,365	4,396	4,428	4,459	4,491	4,523	4,554	4,586	4,618
160	4,618	4,650	4,681	4,713	4,745	4,777	4,809	4,841	4,873	4,905	4,937
170	4,937	4,969	5,001	5,033	5,066	5,098	5,130	5,162	5,195	5,227	5,259
180	5,259	5,292	5,324	5,357	5,389	5,422	5,454	5,487	5,520	5,552	5,585
190	5,585	5,618	5,650	5,683	5,716	5,749	5,782	5,815	5,847	5,880	5,913
200	5,913	5,946	5,979	6,013	6,046	6,079	6,112	6,145	6,178	6,211	6,245
210	6,245	6,278	6,311	6,345	6,378	6,411	6,445	6,478	6,512	6,545	6,579
220	6,579	6,612	6,646	6,680	6,713	6,747	6,781	6,814	6,848	6,882	6,918
230	6,918	6,952	6,986	7,020	7,054	7,088	7,122	7,156	7,190	7,224	7,258
240	7,258	7,292	7,326	7,360	7,394	7,428	7,462	7,496	7,530	7,564	7,598
250	7,598	7,632	7,666	7,700	7,734	7,768	7,802	7,836	7,870	7,904	7,938
260	7,938	7,972	8,006	8,040	8,074	8,108	8,142	8,176	8,210	8,244	8,278
270	8,278	8,312	8,346	8,380	8,414	8,448	8,482	8,516	8,550	8,584	8,618
280	8,618	8,652	8,686	8,720	8,754	8,788	8,822	8,856	8,890	8,924	8,958
290	8,958	9,000	9,042	9,084	9,126	9,168	9,210	9,252	9,294	9,336	9,378
300	9,378	9,420	9,462	9,504	9,546	9,588	9,630	9,672	9,714	9,756	9,798
310	9,798	9,840	9,882	9,924	9,966	10,008	10,050	10,092	10,134	10,176	10,218
320	10,218	10,260	10,302	10,344	10,386	10,428	10,470	10,512	10,554	10,596	10,638
330	10,638	10,680	10,722	10,764	10,806	10,848	10,890	10,932	10,974	11,016	11,058
340	11,058	11,100	11,142	11,184	11,226	11,268	11,310	11,352	11,394	11,436	11,478
350	11,478	11,520	11,562	11,604	11,646	11,688	11,730	11,772	11,814	11,856	11,898
360	11,898	11,940	11,982	12,024	12,066	12,108	12,150	12,192	12,234	12,276	12,318
370	12,318	12,360	12,402	12,444	12,486	12,528	12,570	12,612	12,654	12,696	12,738
380	12,738	12,780	12,822	12,864	12,906	12,948	12,990	13,032	13,074	13,116	13,158
390	13,158	13,200	13,242	13,284	13,326	13,368	13,410	13,452	13,494	13,536	13,578
400	13,578	13,620	13,662	13,704	13,746	13,788	13,830	13,872	13,914	13,956	13,998
410	13,998	14,040	14,082	14,124	14,166	14,208	14,250	14,292	14,334	14,376	14,418
420	14,418	14,460	14,502	14,544	14,586	14,628	14,670	14,712	14,754	14,796	14,838
430	14,838	14,880	14,922	14,964	15,006	15,048	15,090	15,132	15,174	15,216	15,258
440	15,258	15,300	15,342	15,384	15,426	15,468	15,510	15,552	15,594	15,636	15,678
450	15,678	15,720	15,762	15,804	15,846	15,888	15,930	15,972	16,014	16,056	16,098
460	16,098	16,140	16,182	16,224	16,266	16,308	16,350	16,392	16,434	16,476	16,518
470	16,518	16,560	16,602	16,644	16,686	16,728	16,770	16,812	16,854	16,896	16,938
480	16,938	16,980	17,022	17,064	17,106	17,148	17,190	17,232	17,274	17,316	17,358
490	17,358	17,400	17,442	17,484	17,526	17,568	17,610	17,652	17,694	17,736	17,778
500	17,778	17,820	17,862	17,904	17,946	17,988	18,030	18,072	18,114	18,156	18,198

°C	0	1	2	3	4	5	6	7	8	9
510	17,131	17,169	17,208	17,246	17,285	17,323	17,361	17,400	17,438	17,477
520	17,515	17,554	17,592	17,630	17,669	17,707	17,746	17,784	17,823	17,861
530	17,900	17,938	17,977	18,016	18,054	18,093	18,131	18,170	18,208	18,247
540	18,286	18,324	18,363	18,401	18,440	18,479	18,517	18,556	18,595	18,633
550	18,672	18,711	18,749	18,788	18,827	18,865	18,904	18,943	18,982	19,020
560	19,059	19,096	19,136	19,175	19,214	19,253	19,292	19,330	19,369	19,408
570	19,447	19,485	19,524	19,563	19,602	19,641	19,680	19,718	19,757	19,796
580	19,835	19,874	19,913	19,952	19,990	20,029	20,068	20,107	20,146	20,185
590	20,224	20,263	20,302	20,341	20,379	20,418	20,457	20,496	20,535	20,574
600	20,613	20,652	20,691	20,730	20,769	20,808	20,847	20,886	20,925	20,964
610	21,003	21,042	21,081	21,120	21,159	21,198	21,237	21,276	21,315	21,354
620	21,393	21,432	21,471	21,510	21,549	21,588	21,627	21,667	21,706	21,745
630	21,784	21,823	21,862	21,901	21,940	21,979	22,018	22,058	22,097	22,136
640	22,175	22,214	22,253	22,292	22,331	22,370	22,410	22,449	22,488	22,527
650	22,566	22,605	22,644	22,684	22,723	22,762	22,801	22,840	22,879	22,919
660	22,958	22,997	23,036	23,075	23,115	23,154	23,193	23,232	23,271	23,311
670	23,350	23,389	23,428	23,467	23,507	23,546	23,585	23,624	23,663	23,703
680	23,742	23,781	23,820	23,860	23,899	23,938	23,977	24,016	24,056	24,095
690	24,134	24,173	24,213	24,252	24,291	24,330	24,370	24,409	24,448	24,487
700	24,527	24,566	24,605	24,644	24,684	24,723	24,762	24,801	24,841	24,880
710	24,919	24,959	24,998	25,037	25,076	25,116	25,155	25,194	25,233	25,273
720	25,312	25,351	25,391	25,430	25,469	25,508	25,548	25,587	25,626	25,665
730	25,705	25,744	25,783	25,823	25,862	25,901	25,941	25,980	26,019	26,058
740	26,098	26,137	26,176	26,216	26,255	26,294	26,333	26,373	26,412	26,451
750	26,491	26,530	26,569	26,608	26,648	26,687	26,726	26,766	26,805	26,844
760	26,883	26,923	26,962	27,001	27,041	27,080	27,119	27,158	27,198	27,237
770	27,276	27,316	27,355	27,394	27,433	27,473	27,512	27,551	27,591	27,630
780	27,669	27,708	27,748	27,787	27,826	27,866	27,905	27,944	27,983	28,023
790	28,062	28,101	28,140	28,180	28,219	28,258	28,297	28,337	28,376	28,415
800	28,455	28,494	28,533	28,572	28,612	28,651	28,690	28,729	28,769	28,808
810	28,847	28,886	28,926	28,965	29,004	29,043	29,083	29,122	29,161	29,200
820	29,239	29,279	29,318	29,357	29,396	29,436	29,475	29,514	29,553	29,592
830	29,632	29,671	29,710	29,749	29,789	29,828	29,867	29,906	29,945	29,985
840	30,024	30,063	30,102	30,141	30,181	30,220	30,259	30,298	30,337	30,376
850	30,416	30,455	30,494	30,533	30,572	30,611	30,651	30,690	30,729	30,768
860	30,807	30,846	30,886	30,925	30,964	31,003	31,042	31,081	31,120	31,160
870	31,199	31,238	31,277	31,316	31,355	31,394	31,433	31,473	31,512	31,551
880	31,590	31,629	31,668	31,707	31,746	31,785	31,824	31,863	31,903	31,942
890	31,981	32,020	32,059	32,098	32,137	32,176	32,215	32,254	32,293	32,332
900	32,371	32,410	32,449	32,488	32,527	32,566	32,605	32,644	32,683	32,722
910	32,761	32,800	32,839	32,878	32,917	32,956	32,995	33,034	33,073	33,112
920	33,151	33,190	33,229	33,268	33,307	33,346	33,385	33,424	33,463	33,502
930	33,541	33,580	33,619	33,658	33,697	33,736	33,774	33,813	33,852	33,891
940	33,930	33,969	34,008	34,047	34,086	34,124	34,163	34,202	34,241	34,280
950	34,319	34,358	34,396	34,435	34,474	34,513	34,552	34,591	34,629	34,668
960	34,707	34,746	34,785	34,823	34,862	34,901	34,940	34,979	35,017	35,056
970	35,095	35,134	35,172	35,211	35,250	35,289	35,327	35,366	35,405	35,444
980	35,482	35,521	35,560	35,598	35,637	35,676	35,714	35,753	35,792	35,831
990	35,869	35,908	35,946	35,985	36,024	36,062	36,101	36,140	36,178	36,217
1000	36,256	36,294	36,333	36,371	36,410	36,449	36,487	36,526	36,564	36,603
1010	36,641	36,680	36,718	36,757	36,796	36,834	36,873	36,911	36,950	36,988
1020	37,027	37,065	37,104	37,142	37,181	37,219	37,258	37,296	37,334	37,373
1030	37,411	37,450	37,488	37,527	37,565	37,603	37,642	37,680	37,719	37,757
1040	37,795	37,834	37,872	37,911	37,949	37,987	38,026	38,064	38,102	38,141
1050	38,179	38,217	38,256	38,294	38,332	38,370	38,409	38,447	38,485	38,524
1060	38,562	38,600	38,638	38,677	38,715	38,753	38,791	38,829	38,868	38,906
1070	38,944	38,982	39,020	39,059	39,097	39,135	39,173	39,211	39,249	39,287
1080	39,326	39,364	39,402	39,440	39,478	39,516	39,554	39,592	39,630	39,668
1090	39,708	39,746	39,783	39,821	39,859	39,897	39,935	39,973	40,011	40,049
1100	40,087	40,125	40,163	40,201	40,238	40,276	40,314	40,352	40,390	40,428
1110	40,466	40,504	40,542	40,580	40,618	40,655	40,693	40,731	40,769	40,807
1120	40,845	40,883	40,920	40,958	40,996	41,034	41,072	41,109	41,147	41,185
1130	41,223	41,260	41,298	41,336	41,374	41,411	41,449	41,487	41,525	41,563
1140	41,600	41,638	41,676	41,713	41,751	41,788	41,826	41,864	41,901	41,939
1150	41,976	42,014	42,052	42,089	42,127	42,164	42,202	42,239	42,277	42,315
1160	42,352	42,390	42,427	42,465	42,502	42,540	42,577	42,614	42,652	42,689
1170	42,727	42,764	42,802	42,839	42,877	42,914	42,951	42,989	43,026	43,064
1180	43,101	43,138	43,176	43,213	43,250	43,288	43,325	43,362	43,399	43,437
1190	43,474	43,511	43,549	43,586	43,623	43,660	43,698	43,735	43,772	43,809
1200	43,846	43,884	43,921	43,958	43,995	44,032	44,069	44,106	44,144	44,181
1210	44,218	44,255	44,292	44,329	44,366	44,403	44,440	44,477	44,514	44,551
1220	44,588	44,625	44,662	44,699	44,736	44,773	44,810	44,847	44,884	44,921
1230	44,958	44,995	45,032	45,069	45,105	45,142	45,179	45,216	45,253	45,290
1240	45,326	45,363	45,400	45,437	45,474	45,510	45,547	45,584	45,621	45,658
1250	45,694	45,731	45,767	45,804	45,841	45,877	45,914	45,951	45,987	46,024
1260	46,060	46,097	46,133	46,170	46,207	46,243	46,280	46,316	46,353	46,389
1270	46,425	46,462	46,498	46,535	46,571	46,608	46,644	46,680	46,717	46,753
1280	46,789	46,826	46,862	46,898	46,935	46,971	47,007	47,043	47,079	47,116
1290	47,152	47,188	47,224	47,260	47,296	47,333	47,369	47,405	47,441	47,477

TABLEAUX D'EQUIVALENCE mV - °C DES COUPLES THERMOELECTRIQUES



Thermocouple type:

C(w5)

Plage d'utilisation:

Couleur selon CEI 60584-3 (+ / -):

Alliages Couple (+ / -):

Tolerance selon CEI 60584-3

Tolerance selon MC96.1

FEM (mV) en fonction de la température:

0 à +2300°C

/

Tungsten(5%) Rhenium / Tungsten(26%) Rhenium

/

/

Classe 1:

Classe 2:

Special Limit:

Standard:

4,5°C to 425°C & 1,0% to 2320°C

°C	0	1	2	3	4	5	6	7	8	9	10
0	0.000	0.013	0.026	0.040	0.053	0.067	0.080	0.094	0.107	0.121	0.135
10	0.135	0.148	0.162	0.176	0.189	0.203	0.217	0.231	0.244	0.258	0.272
20	0.272	0.286	0.300	0.314	0.328	0.342	0.356	0.370	0.384	0.398	0.412
30	0.412	0.426	0.440	0.454	0.469	0.483	0.497	0.511	0.525	0.540	0.554
40	0.554	0.568	0.583	0.597	0.612	0.626	0.640	0.655	0.669	0.684	0.698
50	0.698	0.713	0.727	0.742	0.757	0.771	0.786	0.800	0.815	0.830	0.845
60	0.845	0.860	0.874	0.889	0.904	0.919	0.934	0.948	0.963	0.978	0.993
70	0.993	1.008	1.023	1.038	1.053	1.068	1.083	1.098	1.114	1.129	1.144
80	1.144	1.159	1.174	1.189	1.205	1.220	1.235	1.250	1.266	1.281	1.296
90	1.296	1.312	1.327	1.342	1.358	1.373	1.389	1.404	1.420	1.435	1.451
100	1.451	1.466	1.482	1.497	1.513	1.529	1.544	1.560	1.576	1.591	1.607
110	1.607	1.623	1.639	1.654	1.670	1.686	1.702	1.718	1.733	1.749	1.765
120	1.765	1.781	1.797	1.813	1.829	1.845	1.861	1.877	1.893	1.909	1.925
130	1.925	1.941	1.957	1.973	1.989	2.006	2.022	2.038	2.054	2.070	2.087
140	2.087	2.103	2.119	2.135	2.152	2.168	2.184	2.201	2.217	2.233	2.250
150	2.250	2.266	2.283	2.299	2.316	2.332	2.349	2.365	2.382	2.398	2.415
160	2.415	2.431	2.448	2.464	2.481	2.498	2.514	2.531	2.548	2.564	2.581
170	2.581	2.598	2.614	2.631	2.648	2.665	2.682	2.699	2.715	2.732	2.749
180	2.749	2.766	2.783	2.800	2.816	2.833	2.850	2.867	2.884	2.901	2.918
190	2.918	2.935	2.952	2.969	2.986	3.003	3.020	3.038	3.055	3.072	3.089
200	3.089	3.106	3.123	3.140	3.158	3.175	3.192	3.209	3.227	3.244	3.260
210	3.261	3.278	3.296	3.313	3.330	3.348	3.365	3.382	3.400	3.417	3.434
220	3.434	3.452	3.469	3.487	3.504	3.522	3.539	3.557	3.574	3.592	3.609
230	3.609	3.627	3.644	3.662	3.679	3.697	3.714	3.732	3.750	3.767	3.785
240	3.785	3.803	3.820	3.838	3.856	3.873	3.891	3.909	3.927	3.944	3.962
250	3.962	3.980	3.998	4.015	4.033	4.051	4.069	4.087	4.104	4.122	4.140
260	4.140	4.158	4.176	4.194	4.212	4.230	4.248	4.266	4.284	4.301	4.319
270	4.319	4.337	4.355	4.373	4.391	4.410	4.428	4.446	4.464	4.482	4.500
280	4.500	4.518	4.536	4.554	4.572	4.590	4.608	4.627	4.645	4.663	4.681
290	4.681	4.699	4.717	4.735	4.754	4.772	4.790	4.809	4.827	4.845	4.863
300	4.863	4.882	4.900	4.918	4.937	4.955	4.973	4.992	5.010	5.028	5.047
310	5.047	5.065	5.083	5.102	5.120	5.139	5.157	5.175	5.194	5.212	5.231
320	5.231	5.249	5.268	5.286	5.305	5.323	5.342	5.360	5.379	5.397	5.416
330	5.416	5.434	5.453	5.471	5.490	5.508	5.527	5.546	5.564	5.583	5.601
340	5.601	5.620	5.639	5.657	5.676	5.695	5.713	5.732	5.751	5.769	5.788
350	5.788	5.807	5.825	5.844	5.863	5.882	5.900	5.919	5.938	5.956	5.975
360	5.975	5.994	6.013	6.032	6.050	6.069	6.088	6.107	6.126	6.144	6.163
370	6.163	6.182	6.201	6.220	6.239	6.257	6.276	6.295	6.314	6.333	6.352
380	6.352	6.371	6.390	6.409	6.427	6.446	6.465	6.484	6.503	6.522	6.541
390	6.541	6.560	6.579	6.598	6.617	6.636	6.655	6.674	6.693	6.712	6.731
400	6.731	6.750	6.769	6.788	6.807	6.826	6.845	6.864	6.883	6.902	6.921
410	6.921	6.940	6.959	6.978	6.997	7.016	7.035	7.054	7.073	7.092	7.111
420	7.111	7.130	7.149	7.168	7.187	7.206	7.225	7.244	7.263	7.282	7.301
430	7.301	7.320	7.339	7.358	7.377	7.396	7.415	7.434	7.453	7.472	7.491
440	7.491	7.510	7.529	7.548	7.567	7.586	7.605	7.624	7.643	7.662	7.681
450	7.681	7.700	7.719	7.738	7.757	7.776	7.795	7.814	7.833	7.852	7.871
460	7.871	7.890	7.909	7.928	7.947	7.966	7.985	8.004	8.023	8.042	8.061
470	8.061	8.080	8.100	8.119	8.138	8.157	8.176	8.195	8.214	8.233	8.252
480	8.252	8.271	8.290	8.309	8.328	8.347	8.366	8.385	8.404	8.423	8.442
490	8.442	8.461	8.480	8.500	8.519	8.538	8.557	8.576	8.595	8.614	8.633
500	8.633	8.652	8.671	8.690	8.710	8.729	8.748	8.767	8.786	8.805	8.824
510	8.824	8.843	8.862	8.881	8.900	8.919	8.938	8.957	8.976	8.995	9.014
520	9.014	9.033	9.052	9.071	9.090	9.109	9.128	9.147	9.166	9.185	9.204
530	9.204	9.223	9.242	9.261	9.280	9.299	9.318	9.337	9.356	9.375	9.394
540	9.394	9.413	9.432	9.451	9.470	9.489	9.508	9.527	9.546	9.565	9.584
550	9.584	9.603	9.622	9.641	9.660	9.679	9.698	9.717	9.736	9.755	9.774
560	9.774	9.793	9.812	9.831	9.850	9.869	9.888	9.907	9.926	9.945	9.964
570	9.964	9.983	10.002	10.021	10.040	10.059	10.078	10.097	10.116	10.135	10.154
580	10.154	10.173	10.192	10.211	10.230	10.249	10.268	10.287	10.306	10.325	10.344
590	10.344	10.363	10.382	10.401	10.420	10.439	10.458	10.477	10.496	10.515	10.534
600	10.534	10.553	10.572	10.591	10.610	10.629	10.648	10.667	10.686	10.705	10.724
610	10.724	10.743	10.762	10.781	10.800	10.819	10.838	10.857	10.876	10.895	10.914
620	10.914	10.933	10.952	10.971	10.990	11.009	11.028	11.047	11.066	11.085	11.104
630	11.104	11.123	11.142	11.161	11.180	11.199	11.218	11.237	11.256	11.275	11.294
640	11.294	11.313	11.332	11.351	11.370	11.389	11.408	11.427	11.446	11.465	11.484
650	11.484	11.503	11.522	11.541	11.560	11.579	11.598	11.617	11.636	11.655	11.674
660	11.674	11.693	11.712	11.731	11.750	11.769	11.788	11.807	11.826	11.845	11.864
670	11.864	11.883	11.902	11.921	11.940	11.959	11.978	11.997	12.016	12.035	12.054
680	12.054	12.073	12.092	12.111	12.130	12.149	12.168	12.187	12.206	12.225	12.244
690	12.244	12.263	12.282	12.301	12.320	12.339	12.358	12.377	12.396	12.415	12.434
700	12.434	12.453	12.472	12.491	12.510	12.529	12.548	12.567	12.586	12.605	12.624
710	12.624	12.643	12.662	12.681	12.700	12.719	12.738	12.757	12.776	12.795	12.814
720	12.814	12.833	12.852	12.871	12.890	12.909	12.928	12.947	12.966	12.985	12.999
730	12.999	13.018	13.037	13.056	13.075	13.094	13.113	13.132	13.151	13.170	13.189
740	13.189	13.208	13.227	13.246	13.265	13.284	13.303	13.322	13.341	13.360	13.379
750	13.379	13.398	13.417	13.436	13.455	13.474	13.493	13.512	13.531	13.550	13.569
760	13.569	13.588	13.607	13.626	13.645	13.664	13.683	13.702	13.721	13.740	13.759
770	13.759	13.778	13.797	13.816	13.835	13.854	13.873	13.892	13.911	13.930	13.949
780	13.949	13.968	13.987	14.006	14.025	14.044	14.063	14.082	14.101	14.120	14.139
790	14.139	14.158	14.177	14.196	14.215	14.234	14.253	14.272	14.291	14.310	14.329
800	14.329	14.348	14.367	14.386	14.405	14.424	14.443	14.462	14.481	14.500	14.519
810	14.519	14.538	14.557	14.576	14.595	14.614	14.633	14.652	14.671	14.690	14.709
820	14.709	14.728	14.747	14.766	14.785	14.804	14.823	14.842	14.861	14.880	14.899
830	14.899	14.918	14.937	14.956	14.975	14.994	15.013	15.032	15.051	15.070	15.089
840	15.089	15.108	15.127	15.146	15.165	15.184	15.203	15.222	15.241	15.260	15.279
850	15.279	15.298	15.317	15.336	15.355	15.374	15.393	15.412	15.431	15.450	15.469
860	15.469	15.488	15.507	15.526	15.545	15.564	15.583	15.602	15.621	15.640	15.659
870	15.659	15.678	15.697	15.716	15.735	15.754	15.773	15.792	15.811	15.830	15.849
880	15.849	15.868	15.887	15.906	15.925	15.944	15.963	15.982	16.001	16.020	16.039
890	16.039	16.058	16.077	16.096	16.115	16.134	16.153	16.172	16.191	16.210	16.229
900	16.229	16.248	16.267	16.286	16.294	16.303	16.322	16.340	16.359	16.378	16.397
910	16.397	16.416	16.435	16.454	16.473	16.492	16.511	16.530	16.549	16.568	16.587
920	16.587	16.606	16.625	16.644	16.663	16.682	16.701	16.720	16.739	16.758	16.777
930	16.777	16.796	16.815	16.834	16.853	16.872	16.891	16.910	16.929	16.948	16.967
940	16.967	16.986	16.999	17.018	17.037	17.056	17.075	17.094	17.113	17.132	17.151
950	17.151	17.170	17.189	17.208	17.227						

TABLEAUX D'EQUIVALENCE mV - °C DES COUPLES THERMOELECTRIQUES



Thermocouple type:

D(w3)

Plage d'utilisation: 0 à +2300°C
Couleur selon CEI 60584-3 (+ / -): /
Alliages Couple (+ / -): Tungsten(3%) Rhenium / Tungsten(25%) Rhenium
Tolerance selon CEI 60584-3 Classe 1: /
Classe 2: /
Tolerance selon MC96.1 Special Limit: /
Standard: 4,5°C to 425°C & 1,0% to 2320°C

FEM (mV) en fonction de la température:

°C	0	10	20	30	40	50	60	70	80	90	100
0	0,000	0,098	0,199	0,305	0,415	0,513	0,644	0,765	0,888	1,015	1,145
100	1,145	1,278	1,414	1,554	1,696	1,840	1,988	2,137	2,290	2,445	2,602
200	2,602	2,761	2,923	3,087	3,253	3,420	3,590	3,761	3,935	4,110	4,206
300	4,286	4,464	4,644	4,825	5,008	5,192	5,377	5,863	5,751	5,940	6,129
400	6,129	6,320	6,512	6,705	6,898	7,093	7,288	7,484	7,681	7,879	8,077
500	8,077	8,275	8,475	8,675	8,875	9,076	9,277	9,479	9,681	9,883	10,086
600	10,086	10,289	10,492	10,695	10,899	11,103	11,307	11,511	11,715	11,920	12,124
700	12,124	12,329	12,534	12,738	12,943	13,147	13,352	13,557	13,761	13,966	14,171
800	14,171	14,376	14,580	14,785	14,989	15,194	15,398	15,601	15,805	16,008	16,211
900	16,211	16,414	16,617	16,819	17,021	17,223	17,424	17,625	17,826	18,026	18,226
1000	18,226	18,426	18,625	18,824	19,023	19,221	19,419	19,616	19,813	20,009	20,206
1100	20,206	20,401	20,597	20,791	20,986	21,180	21,373	21,566	21,759	21,951	22,143
1200	22,143	22,334	22,525	22,715	22,905	23,094	23,283	23,471	23,659	23,846	24,033
1300	24,033	24,220	24,405	24,591	24,776	24,961	25,145	25,328	25,511	25,693	25,875
1400	25,875	26,057	26,238	26,416	26,598	26,777	26,956	27,134	27,312	27,489	27,666
1500	27,666	27,842	28,018	28,193	28,368	28,542	28,715	28,888	29,060	29,233	29,404
1600	29,404	29,575	29,745	29,914	30,083	30,252	30,419	30,587	30,753	30,919	31,085
1700	31,085	31,249	31,413	31,577	31,740	31,902	32,063	32,224	32,384	32,543	32,702
1800	32,702	32,860	33,017	33,174	33,330	33,485	33,639	33,792	33,945	34,097	34,248
1900	34,248	34,398	34,547	34,695	34,843	34,989	35,135	35,279	35,423	35,566	35,707
2000	35,707	35,848	35,987	36,126	36,263	36,399	36,535	36,668	36,801	36,933	37,063
2100	37,063	37,192	37,319	37,446	37,571	37,694	37,816	37,937	38,056	38,174	38,290
2200	38,290	38,404	38,517	38,626	38,738	38,845	38,951	39,055	39,158	39,258	39,356
2300	39,356	39,453									

TABLEAUX D'EQUIVALENCE Ohms - °C DES SONDES A RESISTANCE



Sonde à résistance type:

Pt100

Plage d'utilisation: Classe B: -200 à +850°C (selon type d'élément)
Classe A: -90 à +300°C (selon type d'élément)

Tolérance selon CEI 60751 Classe B: $\pm (0,3 + 0,005[t])$ °C
Classe A: $\pm (0,15 + 0,002[t])$ °C

Résistance (Ohms) en fonction de la température:

°C	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
-200										18,4932
-190	18,9258	19,3580	19,7899	20,2215	20,6526	21,0834	21,5139	21,9439	22,3737	22,8031
-180	23,2321	23,6608	24,0891	24,5171	24,9447	25,3720	25,7990	26,2257	26,6520	27,0779
-170	27,5036	27,9289	28,3539	28,7786	29,2029	29,6270	30,0507	30,4741	30,8972	31,3200
-160	31,7425	32,1646	32,5865	33,0081	33,4294	33,8503	34,2710	34,6914	35,1115	35,5313
-150	35,9508	36,3700	36,7889	37,2076	37,6260	38,0440	38,4619	38,8794	39,2967	39,7137
-140	40,1304	40,5469	40,9631	41,3790	41,7946	42,2101	42,6252	43,0401	43,4547	43,8691
-130	44,2832	44,6971	45,1107	45,5241	45,9372	46,3501	46,7628	47,1752	47,5873	47,9993
-120	48,4109	48,8224	49,2336	49,6446	50,0554	50,4659	50,8762	51,2863	51,6962	52,1058
-110	52,5152	52,9244	53,3334	53,7422	54,1507	54,5591	54,9672	55,3751	55,7828	56,1903
-100	56,5976	57,0047	57,4115	57,8182	58,2247	58,6310	59,0371	59,4429	59,8486	60,2541
-90	60,6594	61,0645	61,4695	61,8742	62,2787	62,6831	63,0873	63,4912	63,8950	64,2987
-80	64,7021	65,1054	65,5084	65,9114	66,3141	66,7166	67,1190	67,5212	67,9233	68,3251
-70	68,7268	69,1284	69,5297	69,9309	70,3319	70,7328	71,1335	71,5340	71,9344	72,3346
-60	72,7347	73,1346	73,5343	73,9339	74,3334	74,7326	75,1318	75,5307	75,9296	76,3282
-50	76,7268	77,1251	77,5234	77,9214	78,3194	78,7171	79,1148	79,5123	79,9096	80,3068
-40	80,7039	81,1008	81,4976	81,8943	82,2908	82,6871	83,0834	83,4795	83,8754	84,2713
-30	84,6669	85,0625	85,4579	85,8532	86,2484	86,6434	87,0383	87,4331	87,8277	88,2222
-20	88,6166	89,0109	89,4050	89,7990	90,1929	90,5866	90,9802	91,3737	91,7671	92,1603
-10	92,5535	92,9465	93,3394	93,7321	94,1247	94,5173	94,9097	95,3019	95,6941	96,0861
0	96,4780	96,8698	97,2615	97,6531	98,0445	98,4359	98,8271	99,2182	99,6091	100,0000

°C	0	1	2	3	4	5	6	7	8	9
0	100,0000	100,3907	100,7814	101,1719	101,5623	101,9526	102,3427	102,7328	103,1227	103,5125
10	103,9022	104,2918	104,6813	105,0706	105,4599	105,8490	106,2380	106,6269	107,0156	107,4043
20	107,7928	108,1813	108,5696	108,9578	109,3458	109,7338	110,1216	110,5094	110,8970	111,2845
30	111,6718	112,0591	112,4463	112,8333	113,2202	113,6070	113,9937	114,3802	114,7667	115,1530
40	115,5392	115,9254	116,3113	116,6972	117,0830	117,4686	117,8541	118,2395	118,6248	119,0100
50	119,3951	119,7800	120,1648	120,5495	120,9341	121,3186	121,7030	122,0872	122,4713	122,8554
60	123,2392	123,6230	124,0067	124,3902	124,7737	125,1570	125,5402	125,9233	126,3063	126,6891
70	127,0718	127,4545	127,8370	128,2194	128,6016	128,9838	129,3658	129,7478	130,1296	130,5113
80	130,8928	131,2743	131,6556	132,0369	132,4180	132,7990	133,1799	133,5606	133,9413	134,3218
90	134,7022	135,0825	135,4627	135,8428	136,2227	136,6026	136,9823	137,3619	137,7414	138,1207
100	138,5000	138,8791	139,2582	139,6371	140,0159	140,3945	140,7731	141,1515	141,5299	141,9081
110	142,2862	142,6642	143,0420	143,4198	143,7974	144,1749	144,5523	144,9296	145,3068	145,6838
120	146,0608	146,4376	146,8143	147,1909	147,5673	147,9437	148,3199	148,6960	149,0721	149,4479
130	149,8237	150,1994	150,5749	150,9504	151,3257	151,7009	152,0759	152,4509	152,8257	153,2005
140	153,5751	153,9496	154,3240	154,6982	155,0724	155,4464	155,8203	156,1941	156,5678	156,9414
150	157,3149	157,6882	158,0614	158,4345	158,8075	159,1804	159,5531	159,9258	160,2983	160,6707
160	161,0430	161,4152	161,7872	162,1592	162,5310	162,9027	163,2743	163,6458	164,0172	164,3884
170	164,7596	165,1306	165,5015	165,8723	166,2429	166,6135	166,9839	167,3542	167,7245	168,0945
180	168,4645	168,8344	169,2041	169,5737	169,9432	170,3126	170,6819	171,0511	171,4201	171,7890
190	172,1579	172,5266	172,8951	173,2636	173,6319	174,0002	174,3683	174,7363	175,1042	175,4719
200	175,8396	176,2071	176,5746	176,9419	177,3090	177,6761	178,0431	178,4099	178,7766	179,1432
210	179,5097	179,8761	180,2424	180,6085	180,9745	181,3405	181,7063	182,0719	182,4375	182,8029
220	183,1683	183,5335	183,8986	184,2636	184,6284	184,9932	185,3578	185,7223	186,0867	186,4510
230	186,8152	187,1793	187,5432	187,9070	188,2707	188,6343	188,9978	189,3611	189,7244	190,0875
240	190,4505	190,8134	191,1762	191,5389	191,9014	192,2638	192,6262	192,9884	193,3504	193,7124
250	194,0743	194,4360	194,7976	195,1591	195,5205	195,8818	196,2429	196,6040	196,9649	197,3257
260	197,6864	198,0469	198,4074	198,7677	199,1280	199,4881	199,8481	200,2079	200,5677	200,9274
270	201,2869	201,6463	202,0056	202,3648	202,7238	203,0828	203,4416	203,8003	204,1589	204,5174
280	204,8758	205,2340	205,5922	205,9502	206,3081	206,6659	207,0236	207,3811	207,7386	208,0959
290	208,4531	208,8102	209,1672	209,5240	209,8808	210,2374	210,5939	210,9503	211,3066	211,6628
300	212,0188	212,3747	212,7305	213,0862	213,4418	213,7973	214,1527	214,5079	214,8630	215,2180
310	215,5729	215,9277	216,2823	216,6369	216,9913	217,3456	217,6998	218,0539	218,4078	218,7617
320	219,1154	219,4690	219,8225	220,1759	220,5291	220,8823	221,2353	221,5882	221,9410	222,2937
330	222,6463	222,9987	223,3511	223,7033	224,0554	224,4074	224,7592	225,1110	225,4626	225,8142
340	226,1656	226,5169	226,8680	227,2191	227,5700	227,9209	228,2716	228,6222	228,9726	229,3230
350	229,6733	230,0234	230,3734	230,7233	231,0731	231,4227	231,7723	232,1217	232,4710	232,8202

TABLEAUX D'EQUIVALENCE Ohms - °C DES SONDES A RESISTANCE



Sonde à résistance type:

Pt1000

Plage d'utilisation: Classe B: -200 à +850°C (selon type d'élément)
Classe A: -90 à +300°C (selon type d'élément)

Tolérance selon CEI 60751 Classe B: $\pm (0,3 + 0,005[t])$ °C
Classe A: $\pm (0,15 + 0,002[t])$ °C

Résistance (Ohms) en fonction de la température:

°C	-9	-8	-7	-6	-5	-4	-3	-2	-1	0
-200										184,932
-190	189,258	193,580	197,899	202,215	206,526	210,834	215,139	219,439	223,737	228,031
-180	232,321	236,608	240,891	245,171	249,447	253,720	257,990	262,257	266,520	270,779
-170	275,036	279,289	283,539	287,786	292,029	296,270	300,507	304,741	308,972	313,200
-160	317,425	321,646	325,865	330,081	334,294	338,503	342,710	346,914	351,115	355,313
-150	359,508	363,700	367,889	372,076	376,260	380,440	384,619	388,794	392,967	397,137
-140	401,304	405,469	409,631	413,790	417,946	422,101	426,252	430,401	434,547	438,691
-130	442,832	446,971	451,107	455,241	459,372	463,501	467,628	471,752	475,873	479,993
-120	484,109	488,224	492,336	496,446	500,554	504,659	508,762	512,863	516,962	521,058
-110	525,152	529,244	533,334	537,422	541,507	545,591	549,672	553,751	557,828	561,903
-100	565,976	570,047	574,115	578,182	582,247	586,310	590,371	594,429	598,486	602,541
-90	606,594	610,645	614,695	618,742	622,787	626,831	630,873	634,912	638,950	642,987
-80	647,021	651,054	655,084	659,114	663,141	667,166	671,190	675,212	679,233	683,251
-70	687,268	691,284	695,297	699,309	703,319	707,328	711,335	715,340	719,344	723,346
-60	727,347	731,346	735,343	739,339	743,334	747,326	751,318	755,307	759,296	763,282
-50	767,268	771,251	775,234	779,214	783,194	787,171	791,148	795,123	799,096	803,068
-40	807,039	811,008	814,976	818,943	822,908	826,871	830,834	834,795	838,754	842,713
-30	846,669	850,625	854,579	858,532	862,484	866,434	870,383	874,331	878,277	882,222
-20	886,166	890,109	894,050	897,990	901,929	905,866	909,802	913,737	917,671	921,603
-10	925,535	929,465	933,394	937,321	941,247	945,173	949,097	953,019	956,941	960,861
0	964,780	968,698	972,615	976,531	980,445	984,359	988,271	992,182	996,091	1000,000

°C	0	1	2	3	4	5	6	7	8	9
0	1000,000	1003,907	1007,814	1011,719	1015,623	1019,526	1023,427	1027,328	1031,227	1035,125
10	1039,022	1042,918	1046,813	1050,706	1054,599	1058,490	1062,380	1066,269	1070,156	1074,043
20	1077,928	1081,813	1085,696	1089,578	1093,458	1097,338	1101,216	1105,094	1108,970	1112,845
30	1116,718	1120,591	1124,463	1128,333	1132,202	1136,070	1139,937	1143,802	1147,667	1151,530
40	1155,392	1159,254	1163,113	1166,972	1170,830	1174,686	1178,541	1182,395	1186,248	1190,100
50	1193,951	1197,800	1201,648	1205,495	1209,341	1213,186	1217,030	1220,872	1224,713	1228,554
60	1232,392	1236,230	1240,067	1243,902	1247,737	1251,570	1255,402	1259,233	1263,063	1266,891
70	1270,718	1274,545	1278,370	1282,194	1286,016	1289,838	1293,658	1297,478	1301,296	1305,113
80	1308,928	1312,743	1316,556	1320,369	1324,180	1327,990	1331,799	1335,606	1339,413	1343,218
90	1347,022	1350,825	1354,627	1358,428	1362,227	1366,026	1369,823	1373,619	1377,414	1381,207
100	1385,000	1388,791	1392,582	1396,371	1400,159	1403,945	1407,731	1411,515	1415,299	1419,081
110	1422,862	1426,642	1430,420	1434,198	1437,974	1441,749	1445,523	1449,296	1453,068	1456,838
120	1460,608	1464,376	1468,143	1471,909	1475,673	1479,437	1483,199	1486,960	1490,721	1494,479
130	1498,237	1501,994	1505,749	1509,504	1513,257	1517,009	1520,759	1524,509	1528,257	1532,005
140	1535,751	1539,496	1543,240	1546,982	1550,724	1554,464	1558,203	1561,941	1565,678	1569,414
150	1573,149	1576,882	1580,614	1584,345	1588,075	1591,804	1595,531	1599,258	1602,983	1606,707
160	1610,430	1614,152	1617,872	1621,592	1625,310	1629,027	1632,743	1636,458	1640,172	1643,884
170	1647,596	1651,306	1655,015	1658,723	1662,429	1666,135	1669,839	1673,542	1677,245	1680,945
180	1684,645	1688,344	1692,041	1695,737	1699,432	1703,126	1706,819	1710,511	1714,201	1717,890
190	1721,579	1725,266	1728,951	1732,636	1736,319	1740,002	1743,683	1747,363	1751,042	1754,719
200	1758,396	1762,071	1765,746	1769,419	1773,090	1776,761	1780,431	1784,099	1787,766	1791,432
210	1795,097	1798,761	1802,424	1806,085	1809,745	1813,405	1817,063	1820,719	1824,375	1828,029
220	1831,683	1835,335	1838,986	1842,636	1846,284	1849,932	1853,578	1857,223	1860,867	1864,510
230	1868,152	1871,793	1875,432	1879,070	1882,707	1886,343	1889,978	1893,611	1897,244	1900,875
240	1904,505	1908,134	1911,762	1915,389	1919,014	1922,638	1926,262	1929,884	1933,504	1937,124
250	1940,743	1944,360	1947,976	1951,591	1955,205	1958,818	1962,429	1966,040	1969,649	1973,257
260	1976,864	1980,469	1984,074	1987,677	1991,280	1994,881	1998,481	2002,079	2005,677	2009,274
270	2012,869	2016,463	2020,056	2023,648	2027,238	2030,828	2034,416	2038,003	2041,589	2045,174
280	2048,758	2052,340	2055,922	2059,502	2063,081	2066,659	2070,236	2073,811	2077,386	2080,959
290	2084,531	2088,102	2091,672	2095,240	2098,808	2102,374	2105,939	2109,503	2113,066	2116,628
300	2120,188	2123,747	2127,305	2130,862	2134,418	2137,973	2141,527	2145,079	2148,630	2152,180
310	2155,729	2159,277	2162,823	2166,369	2169,913	2173,456	2176,998	2180,539	2184,078	2187,617
320	2191,154	2194,690	2198,225	2201,759	2205,291	2208,823	2212,353	2215,882	2219,410	2222,937
330	2226,463	2229,987	2233,511	2237,033	2240,554	2244,074	2247,592	2251,110	2254,626	2258,142
340	2261,656	2265,169	2268,680	2272,191	2275,700	2279,209	2282,716	2286,222	2289,726	2293,230
350	2296,733	2300,234	2303,734	2307,233	2310,731	2314,227	2317,723	2321,217	2324,710	2328,202