

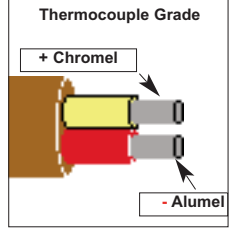
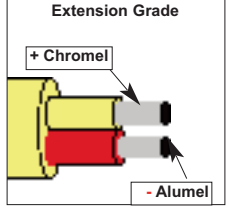


Technical Information Data Bulletin

Type K Thermocouple Chromel-Alumel

TEMPERATURE & PROCESS INSTRUMENTS - CONZ

Temperature vs Millivolt Table Reference Junction 32°F



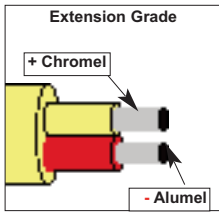
Temperature Range
 Maximum Useful Temperature Range:
 Thermocouple Grade: -328 to 2282°F
 -200 to 1250°C
 Extension Grade: 32 to 392°F
 0 to 200°C

Maximum Thermocouple Grade
 Temperature Range
 -454 to 2501°F
 -270 to 1372°C
Accuracy: Standard: 2.2°C or 0.75%
 Special: 1.1°C or 0.4%

Recommended Applications:
 Clean Oxidizing and Inert Environments, Limited Use in Vacuum or Reducing Environment

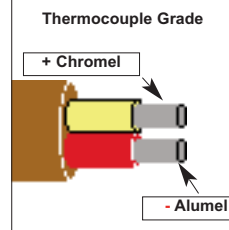
Temp	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-450	-6.4557	-6.4563	-6.4568	-6.4573	-6.4577					
-440	-6.4465	-6.4477	-6.4488	-6.4499	-6.4509	-6.4518	-6.4527	-6.4536	-6.4543	-6.4550
-430	-6.4310	-6.4329	-6.4347	-6.4364	-6.4380	-6.4396	-6.4411	-6.4425	-6.4439	-6.4452
-420	-6.4089	-6.4114	-6.4138	-6.4162	-6.4186	-6.4208	-6.4230	-6.4251	-6.4271	-6.4291
-410	-6.3798	-6.3830	-6.3862	-6.3893	-6.3923	-6.3952	-6.3981	-6.4009	-6.4036	-6.4063
-400	-6.3438	-6.3477	-6.3516	-6.3554	-6.3591	-6.3627	-6.3663	-6.3697	-6.3732	-6.3765
-390	-6.3010	-6.3056	-6.3101	-6.3146	-6.3189	-6.3233	-6.3275	-6.3317	-6.3358	-6.3399
-380	-6.2514	-6.2567	-6.2618	-6.2670	-6.2720	-6.2770	-6.2819	-6.2868	-6.2916	-6.2963
-370	-6.1952	-6.2011	-6.2070	-6.2128	-6.2185	-6.2241	-6.2297	-6.2352	-6.2407	-6.2461
-360	-6.1326	-6.1392	-6.1457	-6.1521	-6.1584	-6.1647	-6.1709	-6.1771	-6.1832	-6.1892
-350	-6.0638	-6.0710	-6.0781	-6.0851	-6.0921	-6.0990	-6.1059	-6.1126	-6.1194	-6.1260
-340	-5.9890	-5.9967	-6.0044	-6.0121	-6.0196	-6.0272	-6.0346	-6.0420	-6.0493	-6.0566
-330	-5.9082	-5.9166	-5.9249	-5.9331	-5.9412	-5.9493	-5.9574	-5.9654	-5.9733	-5.9812
-320	-5.8218	-5.8307	-5.8395	-5.8483	-5.8570	-5.8657	-5.8743	-5.8829	-5.8914	-5.8999
-310	-5.7297	-5.7392	-5.7486	-5.7579	-5.7672	-5.7764	-5.7856	-5.7947	-5.8038	-5.8128
-300	-5.6322	-5.6422	-5.6521	-5.6620	-5.6719	-5.6816	-5.6914	-5.7010	-5.7107	-5.7202
-290	-5.5294	-5.5399	-5.5504	-5.5608	-5.5711	-5.5814	-5.5917	-5.6019	-5.6121	-5.6222
-280	-5.4213	-5.4323	-5.4433	-5.4543	-5.4651	-5.4760	-5.4868	-5.4975	-5.5082	-5.5188
-270	-5.3081	-5.3196	-5.3311	-5.3426	-5.3540	-5.3653	-5.3766	-5.3879	-5.3991	-5.4102
-260	-5.1899	-5.2019	-5.2139	-5.2259	-5.2378	-5.2496	-5.2614	-5.2732	-5.2849	-5.2965
-250	-5.0668	-5.0793	-5.0918	-5.1042	-5.1166	-5.1290	-5.1412	-5.1535	-5.1657	-5.1778
-240	-4.9389	-4.9519	-4.9648	-4.9777	-4.9906	-5.0034	-5.0162	-5.0289	-5.0416	-5.0542
-230	-4.8062	-4.8197	-4.8331	-4.8465	-4.8598	-4.8731	-4.8864	-4.8996	-4.9127	-4.9258
-220	-4.6690	-4.6829	-4.6968	-4.7106	-4.7244	-4.7382	-4.7519	-4.7655	-4.7791	-4.7927
-210	-4.5272	-4.5416	-4.5559	-4.5702	-4.5845	-4.5987	-4.6128	-4.6269	-4.6410	-4.6550
-200	-4.3810	-4.3959	-4.4106	-4.4254	-4.4400	-4.4547	-4.4693	-4.4838	-4.4983	-4.5128
-190	-4.2305	-4.2458	-4.2610	-4.2761	-4.2913	-4.3063	-4.3214	-4.3363	-4.3513	-4.3662
-180	-4.0758	-4.0915	-4.1071	-4.1227	-4.1382	-4.1537	-4.1692	-4.1846	-4.1999	-4.2153
-170	-3.9170	-3.9331	-3.9491	-3.9651	-3.9810	-3.9969	-4.0128	-4.0286	-4.0444	-4.0601
-160	-3.7542	-3.7706	-3.7871	-3.8034	-3.8198	-3.8361	-3.8524	-3.8686	-3.8848	-3.9009
-150	-3.5874	-3.6043	-3.6211	-3.6379	-3.6546	-3.6713	-3.6879	-3.7046	-3.7211	-3.7377
-140	-3.4169	-3.4341	-3.4513	-3.4685	-3.4856	-3.5026	-3.5197	-3.5367	-3.5536	-3.5706
-130	-3.2427	-3.2603	-3.2778	-3.2953	-3.3128	-3.3303	-3.3477	-3.3650	-3.3824	-3.3997
-120	-3.0649	-3.0828	-3.1007	-3.1186	-3.1364	-3.1542	-3.1720	-3.1897	-3.2074	-3.2251
-110	-2.8836	-2.9019	-2.9201	-2.9383	-2.9565	-2.9747	-2.9928	-3.0109	-3.0289	-3.0469
-100	-2.6990	-2.7176	-2.7362	-2.7547	-2.7732	-2.7917	-2.8101	-2.8286	-2.8469	-2.8653
-90	-2.5111	-2.5300	-2.5489	-2.5678	-2.5866	-2.6054	-2.6242	-2.6429	-2.6617	-2.6803
-80	-2.3201	-2.3393	-2.3585	-2.3777	-2.3969	-2.4160	-2.4351	-2.4541	-2.4731	-2.4921
-70	-2.1261	-2.1456	-2.1651	-2.1846	-2.2040	-2.2234	-2.2428	-2.2622	-2.2815	-2.3008
-60	-1.9291	-1.9489	-1.9687	-1.9885	-2.0082	-2.0279	-2.0476	-2.0673	-2.0869	-2.1065
-50	-1.7294	-1.7495	-1.7695	-1.7896	-1.8096	-1.8296	-1.8496	-1.8695	-1.8894	-1.9093
-40	-1.5270	-1.5473	-1.5676	-1.5880	-1.6082	-1.6285	-1.6487	-1.6689	-1.6891	-1.7093
-30	-1.3219	-1.3426	-1.3631	-1.3837	-1.4042	-1.4248	-1.4453	-1.4657	-1.4862	-1.5066
-20	-1.1144	-1.1353	-1.1561	-1.1769	-1.1977	-1.2185	-1.2392	-1.2599	-1.2806	-1.3013
-10	-0.9046	-0.9257	-0.9467	-0.9678	-0.9888	-1.0098	-1.0308	-1.0517	-1.0727	-1.0936
0	-0.6924	-0.7137	-0.7350	-0.7563	-0.7775	-0.7988	-0.8200	-0.8412	-0.8623	-0.8835

Temperature vs Millivolt Table Reference Junction 32°F



Temperature Range
Maximum Useful Temperature Range:
Thermocouple Grade: -328 to 2282°F
-200 to 1250°C
Extension Grade: 32 to 392°F
0 to 200°C

Maximum Thermocouple Grade
Temperature Range
-454 to 2501°F
-270 to 1372°C
Accuracy: Standard: 2.2°C or 0.75%
Special: 1.1°C or 0.4%

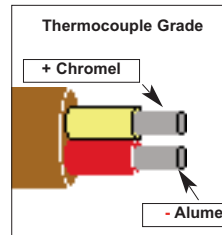
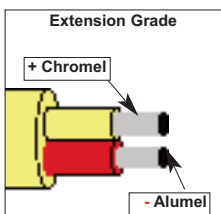


Recommended Applications:

Clean Oxidizing and Inert Environments, Limited Use in Vacuum or Reducing Environment

Temp	0	1	2	3	4	5	6	7	8	9
0	-0.6924	-0.6711	-0.6497	-0.6284	-0.6070	-0.5855	-0.5641	-0.5426	-0.5212	-0.4997
10	-0.4781	-0.4566	-0.4350	-0.4135	-0.3919	-0.3702	-0.3486	-0.3269	-0.3053	-0.2836
20	-0.2619	-0.2401	-0.2184	-0.1966	-0.1748	-0.1530	-0.1312	-0.1094	-0.0876	-0.0657
30	-0.0438	-0.0219	0.0000	0.0219	0.0439	0.0658	0.0878	0.1098	0.1318	0.1538
40	0.1758	0.1979	0.2199	0.2420	0.2641	0.2862	0.3083	0.3304	0.3525	0.3747
50	0.3969	0.4190	0.4412	0.4635	0.4857	0.5079	0.5302	0.5524	0.5747	0.5970
60	0.6193	0.6416	0.6639	0.6863	0.7086	0.7310	0.7533	0.7757	0.7981	0.8205
70	0.8430	0.8654	0.8878	0.9103	0.9328	0.9553	0.9777	1.0002	1.0228	1.0453
80	1.0678	1.0904	1.1129	1.1355	1.1581	1.1807	1.2033	1.2259	1.2485	1.2711
90	1.2938	1.3164	1.3391	1.3618	1.3845	1.4072	1.4299	1.4526	1.4753	1.4980
100	1.5208	1.5435	1.5663	1.5890	1.6118	1.6346	1.6574	1.6802	1.7030	1.7258
110	1.7486	1.7714	1.7943	1.8171	1.8400	1.8628	1.8857	1.9086	1.9315	1.9544
120	1.9773	2.0002	2.0231	2.0460	2.0689	2.0919	2.1148	2.1377	2.1607	2.1836
130	2.2066	2.2296	2.2525	2.2755	2.2985	2.3215	2.3445	2.3675	2.3905	2.4135
140	2.4365	2.4595	2.4825	2.5055	2.5286	2.5516	2.5746	2.5977	2.6207	2.6437
150	2.6668	2.6898	2.7129	2.7359	2.7590	2.7821	2.8051	2.8282	2.8513	2.8743
160	2.8974	2.9205	2.9435	2.9666	2.9897	3.0128	3.0358	3.0589	3.0820	3.1051
170	3.1282	3.1512	3.1743	3.1974	3.2205	3.2436	3.2666	3.2897	3.3128	3.3359
180	3.3590	3.3820	3.4051	3.4282	3.4513	3.4743	3.4974	3.5205	3.5435	3.5666
190	3.5897	3.6127	3.6358	3.6588	3.6819	3.7049	3.7280	3.7510	3.7741	3.7971
200	3.8201	3.8432	3.8662	3.8892	3.9122	3.9352	3.9583	3.9813	4.0043	4.0273
210	4.0503	4.0733	4.0962	4.1192	4.1422	4.1652	4.1881	4.2111	4.2340	4.2570
220	4.2799	4.3029	4.3258	4.3487	4.3717	4.3946	4.4175	4.4404	4.4633	4.4862
230	4.5091	4.5319	4.5548	4.5777	4.6005	4.6234	4.6462	4.6691	4.6919	4.7148
240	4.7376	4.7604	4.7832	4.8060	4.8288	4.8516	4.8744	4.8971	4.9199	4.9426
250	4.9654	4.9881	5.0109	5.0336	5.0563	5.0790	5.1017	5.1244	5.1471	5.1698
260	5.1925	5.2152	5.2378	5.2605	5.2831	5.3058	5.3284	5.3510	5.3736	5.3963
270	5.4189	5.4414	5.4640	5.4866	5.5092	5.5318	5.5543	5.5769	5.5994	5.6219
280	5.6445	5.6670	5.6895	5.7120	5.7345	5.7570	5.7795	5.8020	5.8244	5.8469
290	5.8694	5.8918	5.9143	5.9367	5.9591	5.9816	6.0040	6.0264	6.0488	6.0712
300	6.0936	6.1160	6.1383	6.1607	6.1831	6.2055	6.2278	6.2502	6.2725	6.2948
310	6.3172	6.3395	6.3618	6.3841	6.4065	6.4288	6.4511	6.4734	6.4957	6.5179
320	6.5402	6.5625	6.5848	6.6070	6.6293	6.6516	6.6738	6.6961	6.7183	6.7406
330	6.7628	6.7850	6.8073	6.8295	6.8517	6.8739	6.8962	6.9184	6.9406	6.9628
340	6.9850	7.0072	7.0294	7.0516	7.0738	7.0960	7.1182	7.1404	7.1626	7.1848
350	7.2070	7.2291	7.2513	7.2735	7.2957	7.3179	7.3400	7.3622	7.3844	7.4066
360	7.4287	7.4509	7.4731	7.4952	7.5174	7.5396	7.5618	7.5839	7.6061	7.6283
370	7.6504	7.6726	7.6948	7.7170	7.7391	7.7613	7.7835	7.8057	7.8278	7.8500
380	7.8722	7.8944	7.9166	7.9387	7.9609	7.9831	8.0053	8.0275	8.0497	8.0719
390	8.0941	8.1163	8.1385	8.1607	8.1829	8.2051	8.2273	8.2495	8.2717	8.2940
400	8.3162	8.3384	8.3606	8.3829	8.4051	8.4273	8.4496	8.4718	8.4941	8.5163
410	8.5386	8.5609	8.5831	8.6054	8.6277	8.6499	8.6722	8.6945	8.7168	8.7391
420	8.7614	8.7837	8.8060	8.8283	8.8506	8.8729	8.8952	8.9176	8.9399	8.9622
430	8.9846	9.0069	9.0293	9.0516	9.0740	9.0963	9.1187	9.1411	9.1635	9.1859
440	9.2082	9.2306	9.2530	9.2754	9.2979	9.3203	9.3427	9.3651	9.3875	9.4100
450	9.4324	9.4549	9.4773	9.4998	9.5222	9.5447	9.5672	9.5897	9.6121	9.6346
460	9.6571	9.6796	9.7021	9.7246	9.7472	9.7697	9.7922	9.8147	9.8373	9.8598
470	9.8824	9.9049	9.9275	9.9500	9.9726	9.9952	10.0178	10.0404	10.0629	10.0855

Temperature vs Millivolt Table Reference Junction 32°F



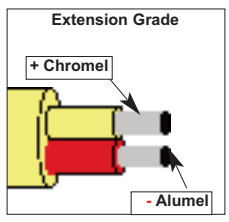
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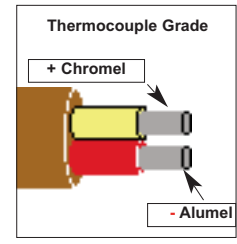
Temp	0	1	2	3	4	5	6	7	8	9
480	10.1081	10.1308	10.1534	10.1760	10.1986	10.2212	10.2439	10.2665	10.2892	10.3118
490	10.3345	10.3571	10.3798	10.4025	10.4252	10.4478	10.4705	10.4932	10.5159	10.5386
500	10.5613	10.5840	10.6068	10.6295	10.6522	10.6749	10.6977	10.7204	10.7432	10.7659
510	10.7887	10.8115	10.8342	10.8570	10.8798	10.9026	10.9254	10.9481	10.9709	10.9938
520	11.0166	11.0394	11.0622	11.0850	11.1078	11.1307	11.1535	11.1763	11.1992	11.2220
530	11.2449	11.2678	11.2906	11.3135	11.3364	11.3592	11.3821	11.4050	11.4279	11.4508
540	11.4737	11.4966	11.5195	11.5424	11.5653	11.5882	11.6112	11.6341	11.6570	11.6800
550	11.7029	11.7258	11.7488	11.7717	11.7947	11.8177	11.8406	11.8636	11.8866	11.9095
560	11.9325	11.9555	11.9785	12.0015	12.0245	12.0475	12.0705	12.0935	12.1165	12.1395
570	12.1625	12.1855	12.2086	12.2316	12.2546	12.2777	12.3007	12.3237	12.3468	12.3698
580	12.3929	12.4159	12.4390	12.4621	12.4851	12.5082	12.5313	12.5543	12.5774	12.6005
590	12.6236	12.6467	12.6698	12.6928	12.7159	12.7390	12.7622	12.7853	12.8084	12.8315
600	12.8546	12.8777	12.9008	12.9240	12.9471	12.9702	12.9934	13.0165	13.0396	13.0628
610	13.0859	13.1091	13.1322	13.1554	13.1785	13.2017	13.2248	13.2480	13.2712	13.2943
620	13.3175	13.3407	13.3639	13.3871	13.4102	13.4334	13.4566	13.4798	13.5030	13.5262
630	13.5494	13.5726	13.5958	13.6190	13.6422	13.6654	13.6887	13.7119	13.7351	13.7583
640	13.7816	13.8048	13.8280	13.8512	13.8745	13.8977	13.9210	13.9442	13.9675	13.9907
650	14.0139	14.0372	14.0605	14.0837	14.1070	14.1302	14.1535	14.1768	14.2000	14.2233
660	14.2466	14.2699	14.2931	14.3164	14.3397	14.3630	14.3863	14.4096	14.4329	14.4562
670	14.4795	14.5028	14.5261	14.5494	14.5727	14.5960	14.6193	14.6426	14.6659	14.6893
680	14.7126	14.7359	14.7592	14.7826	14.8059	14.8292	14.8525	14.8759	14.8992	14.9226
690	14.9459	14.9692	14.9926	15.0159	15.0393	15.0626	15.0860	15.1094	15.1327	15.1561
700	15.1794	15.2028	15.2262	15.2496	15.2729	15.2963	15.3197	15.3431	15.3664	15.3898
710	15.4132	15.4366	15.4600	15.4834	15.5068	15.5302	15.5536	15.5770	15.6004	15.6238
720	15.6472	15.6706	15.6940	15.7174	15.7408	15.7642	15.7876	15.8111	15.8345	15.8579
730	15.8813	15.9047	15.9282	15.9516	15.9750	15.9985	16.0219	16.0453	16.0688	16.0922
740	16.1157	16.1391	16.1626	16.1860	16.2095	16.2329	16.2564	16.2798	16.3033	16.3267
750	16.3502	16.3737	16.3971	16.4206	16.4441	16.4676	16.4910	16.5145	16.5380	16.5615
760	16.5849	16.6084	16.6319	16.6554	16.6789	16.7024	16.7259	16.7493	16.7728	16.7963
770	16.8198	16.8433	16.8668	16.8903	16.9138	16.9374	16.9609	16.9844	17.0079	17.0314
780	17.0549	17.0784	17.1019	17.1255	17.1490	17.1725	17.1960	17.2196	17.2431	17.2666
790	17.2901	17.3137	17.3372	17.3608	17.3843	17.4078	17.4314	17.4549	17.4785	17.5020
800	17.5255	17.5491	17.5726	17.5962	17.6197	17.6433	17.6669	17.6904	17.7140	17.7375
810	17.7611	17.7847	17.8082	17.8318	17.8554	17.8789	17.9025	17.9261	17.9496	17.9732
820	17.9968	18.0204	18.0440	18.0675	18.0911	18.1147	18.1383	18.1619	18.1855	18.2090
830	18.2326	18.2562	18.2798	18.3034	18.3270	18.3506	18.3742	18.3978	18.4214	18.4450
840	18.4686	18.4922	18.5158	18.5394	18.5630	18.5866	18.6102	18.6339	18.6575	18.6811
850	18.7047	18.7283	18.7519	18.7755	18.7992	18.8228	18.8464	18.8700	18.8936	18.9173
860	18.9409	18.9645	18.9882	19.0118	19.0354	19.0590	19.0827	19.1063	19.1299	19.1536
870	19.1772	19.2009	19.2245	19.2481	19.2718	19.2954	19.3191	19.3427	19.3663	19.3900
880	19.4136	19.4373	19.4609	19.4846	19.5082	19.5319	19.5555	19.5792	19.6028	19.6265
890	19.6501	19.6738	19.6975	19.7211	19.7448	19.7684	19.7921	19.8157	19.8394	19.8631
900	19.8867	19.9104	19.9341	19.9577	19.9814	20.0051	20.0287	20.0524	20.0761	20.0997
910	20.1234	20.1471	20.1707	20.1944	20.2181	20.2418	20.2654	20.2891	20.3128	20.3365
920	20.3601	20.3838	20.4075	20.4312	20.4548	20.4785	20.5022	20.5259	20.5496	20.5732
930	20.5969	20.6206	20.6443	20.6680	20.6917	20.7153	20.7390	20.7627	20.7864	20.8101
940	20.8338	20.8574	20.8811	20.9048	20.9285	20.9522	20.9759	20.9996	21.0233	21.0469
950	21.0706	21.0943	21.1180	21.1417	21.1654	21.1891	21.2128	21.2365	21.2602	21.2838



Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range
 Maximum Useful Temperature Range:
 Thermocouple Grade: -328 to 2282°F
 -200 to 1250°C
 Extension Grade: 32 to 392°F
 0 to 200°C

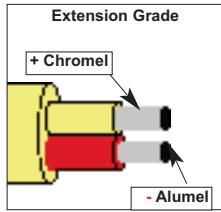
Maximum Thermocouple Grade
 Temperature Range
 -454 to 2501°F
 -270 to 1372°C
 Accuracy: Standard: 2.2°C or 0.75%
 Special: 1.1°C or 0.4%



Recommended Applications:
 Clean Oxidizing and Inert Environments, Limited Use in Vacuum or Reducing Environment

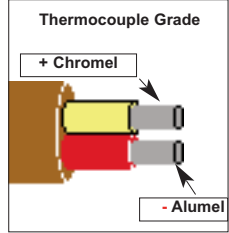
Temp	0	1	2	3	4	5	6	7	8	9
960	21.3075	21.3312	21.3549	21.3786	21.4023	21.4260	21.4497	21.4734	21.4971	21.5208
970	21.5445	21.5682	21.5919	21.6155	21.6392	21.6629	21.6866	21.7103	21.7340	21.7577
980	21.7814	21.8051	21.8288	21.8525	21.8762	21.8999	21.9236	21.9473	21.9709	21.9946
990	22.0183	22.0420	22.0657	22.0894	22.1131	22.1368	22.1605	22.1842	22.2079	22.2316
1000	22.2553	22.2790	22.3026	22.3263	22.3500	22.3737	22.3974	22.4211	22.4448	22.4685
1010	22.4922	22.5159	22.5396	22.5632	22.5869	22.6106	22.6343	22.6580	22.6817	22.7054
1020	22.7291	22.7527	22.7764	22.8001	22.8238	22.8475	22.8712	22.8949	22.9185	22.9422
1030	22.9659	22.9896	23.0133	23.0369	23.0606	23.0843	23.1080	23.1317	23.1553	23.1790
1040	23.2027	23.2264	23.2501	23.2737	23.2974	23.3211	23.3448	23.3684	23.3921	23.4158
1050	23.4394	23.4631	23.4868	23.5105	23.5341	23.5578	23.5815	23.6051	23.6288	23.6525
1060	23.6761	23.6998	23.7235	23.7471	23.7708	23.7944	23.8181	23.8418	23.8654	23.8891
1070	23.9127	23.9364	23.9600	23.9837	24.0074	24.0310	24.0547	24.0783	24.1020	24.1256
1080	24.1493	24.1729	24.1965	24.2202	24.2438	24.2675	24.2911	24.3148	24.3384	24.3620
1090	24.3857	24.4093	24.4330	24.4566	24.4802	24.5039	24.5275	24.5511	24.5748	24.5984
1100	24.6220	24.6456	24.6693	24.6929	24.7165	24.7401	24.7638	24.7874	24.8110	24.8346
1110	24.8582	24.8819	24.9055	24.9291	24.9527	24.9763	24.9999	25.0235	25.0471	25.0707
1120	25.0943	25.1179	25.1415	25.1651	25.1887	25.2123	25.2359	25.2595	25.2831	25.3067
1130	25.3303	25.3539	25.3775	25.4011	25.4247	25.4483	25.4718	25.4954	25.5190	25.5426
1140	25.5662	25.5897	25.6133	25.6369	25.6605	25.6840	25.7076	25.7312	25.7547	25.7783
1150	25.8019	25.8254	25.8490	25.8725	25.8961	25.9196	25.9432	25.9668	25.9903	26.0139
1160	26.0374	26.0609	26.0845	26.1080	26.1316	26.1551	26.1786	26.2022	26.2257	26.2493
1170	26.2728	26.2963	26.3198	26.3434	26.3669	26.3904	26.4139	26.4375	26.4610	26.4845
1180	26.5080	26.5315	26.5550	26.5785	26.6020	26.6255	26.6491	26.6726	26.6961	26.7196
1190	26.7430	26.7665	26.7900	26.8135	26.8370	26.8605	26.8840	26.9075	26.9310	26.9544
1200	26.9779	27.0014	27.0249	27.0483	27.0718	27.0953	27.1187	27.1422	27.1657	27.1891
1210	27.2126	27.2360	27.2595	27.2830	27.3064	27.3299	27.3533	27.3767	27.4002	27.4236
1220	27.4471	27.4705	27.4939	27.5174	27.5408	27.5642	27.5877	27.6111	27.6345	27.6579
1230	27.6813	27.7048	27.7282	27.7516	27.7750	27.7984	27.8218	27.8452	27.8686	27.8920
1240	27.9154	27.9388	27.9622	27.9856	28.0090	28.0324	28.0558	28.0791	28.1025	28.1259
1250	28.1493	28.1726	28.1960	28.2194	28.2427	28.2661	28.2895	28.3128	28.3362	28.3595
1260	28.3829	28.4063	28.4296	28.4529	28.4763	28.4996	28.5230	28.5463	28.5696	28.5930
1270	28.6163	28.6396	28.6630	28.6863	28.7096	28.7329	28.7562	28.7796	28.8029	28.8262
1280	28.8495	28.8728	28.8961	28.9194	28.9427	28.9660	28.9893	29.0126	29.0358	29.0591
1290	29.0824	29.1057	29.1290	29.1522	29.1755	29.1988	29.2221	29.2453	29.2686	29.2919
1300	29.3151	29.3384	29.3616	29.3849	29.4081	29.4314	29.4546	29.4778	29.5011	29.5243
1310	29.5476	29.5708	29.5940	29.6172	29.6405	29.6637	29.6869	29.7101	29.7333	29.7565
1320	29.7797	29.8030	29.8262	29.8494	29.8726	29.8957	29.9189	29.9421	29.9653	29.9885
1330	30.0117	30.0349	30.0580	30.0812	30.1044	30.1276	30.1507	30.1739	30.1970	30.2202
1340	30.2434	30.2665	30.2897	30.3128	30.3360	30.3591	30.3822	30.4054	30.4285	30.4516
1350	30.4748	30.4979	30.5210	30.5441	30.5673	30.5904	30.6135	30.6366	30.6597	30.6828
1360	30.7059	30.7290	30.7521	30.7752	30.7983	30.8214	30.8445	30.8675	30.8906	30.9137
1370	30.9368	30.9598	30.9829	31.0060	31.0290	31.0521	31.0752	31.0982	31.1213	31.1443
1380	31.1674	31.1904	31.2135	31.2365	31.2595	31.2826	31.3056	31.3286	31.3516	31.3747
1390	31.3977	31.4207	31.4437	31.4667	31.4897	31.5127	31.5357	31.5587	31.5817	31.6047
1400	31.6277	31.6507	31.6737	31.6967	31.7196	31.7426	31.7656	31.7886	31.8115	31.8345
1410	31.8575	31.8804	31.9034	31.9263	31.9493	31.9722	31.9952	32.0181	32.0410	32.0640
1420	32.0869	32.1098	32.1328	32.1557	32.1786	32.2015	32.2245	32.2474	32.2703	32.2932

Temperature vs Millivolt Table Reference Junction 32°F



Temperature Range
 Maximum Useful Temperature Range:
 Thermocouple Grade: -328 to 2282°F
 -200 to 1250°C
 Extension Grade: 32 to 392°F
 0 to 200°C

Maximum Thermocouple Grade
 Temperature Range
 -454 to 2501°F
 -270 to 1372°C
 Accuracy: Standard: 2.2°C or 0.75%
 Special: 1.1°C or 0.4%

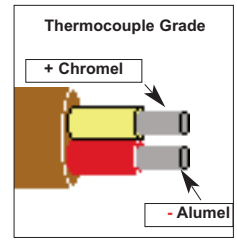
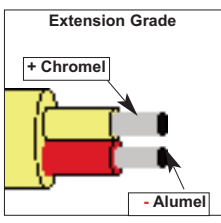


Recommended Applications:

Clean Oxidizing and Inert Environments, Limited Use in Vacuum or Reducing Environment

Temp	0	1	2	3	4	5	6	7	8	9
1430	32.3161	32.3390	32.3619	32.3848	32.4077	32.4306	32.4534	32.4763	32.4992	32.5221
1440	32.5450	32.5678	32.5907	32.6136	32.6364	32.6593	32.6821	32.7050	32.7279	32.7507
1450	32.7735	32.7964	32.8192	32.8421	32.8649	32.8877	32.9106	32.9334	32.9562	32.9790
1460	33.0018	33.0246	33.0475	33.0703	33.0931	33.1159	33.1387	33.1615	33.1842	33.2070
1470	33.2298	33.2526	33.2754	33.2982	33.3209	33.3437	33.3665	33.3892	33.4120	33.4348
1480	33.4575	33.4803	33.5030	33.5258	33.5485	33.5712	33.5940	33.6167	33.6394	33.6622
1490	33.6849	33.7076	33.7303	33.7531	33.7758	33.7985	33.8212	33.8439	33.8666	33.8893
1500	33.9120	33.9347	33.9574	33.9800	34.0027	34.0254	34.0481	34.0708	34.0934	34.1161
1510	34.1388	34.1614	34.1841	34.2067	34.2294	34.2520	34.2747	34.2973	34.3200	34.3426
1520	34.3652	34.3879	34.4105	34.4331	34.4557	34.4784	34.5010	34.5236	34.5462	34.5688
1530	34.5914	34.6140	34.6366	34.6592	34.6818	34.7044	34.7270	34.7496	34.7721	34.7947
1540	34.8173	34.8399	34.8624	34.8850	34.9075	34.9301	34.9527	34.9752	34.9978	35.0203
1550	35.0428	35.0654	35.0879	35.1104	35.1330	35.1555	35.1780	35.2005	35.2231	35.2456
1560	35.2681	35.2906	35.3131	35.3356	35.3581	35.3806	35.4031	35.4256	35.4481	35.4706
1570	35.4930	35.5155	35.5380	35.5605	35.5829	35.6054	35.6279	35.6503	35.6728	35.6952
1580	35.7177	35.7401	35.7626	35.7850	35.8074	35.8299	35.8523	35.8747	35.8972	35.9196
1590	35.9420	35.9644	35.9868	36.0092	36.0316	36.0540	36.0764	36.0988	36.1212	36.1436
1600	36.1660	36.1884	36.2108	36.2332	36.2555	36.2779	36.3003	36.3226	36.3450	36.3674
1610	36.3897	36.4121	36.4344	36.4568	36.4791	36.5015	36.5238	36.5461	36.5685	36.5908
1620	36.6131	36.6354	36.6578	36.6801	36.7024	36.7247	36.7470	36.7693	36.7916	36.8139
1630	36.8362	36.8585	36.8808	36.9031	36.9254	36.9476	36.9699	36.9922	37.0145	37.0367
1640	37.0590	37.0813	37.1035	37.1258	37.1480	37.1703	37.1925	37.2148	37.2370	37.2592
1650	37.2815	37.3037	37.3259	37.3481	37.3704	37.3926	37.4148	37.4370	37.4592	37.4814
1660	37.5036	37.5258	37.5480	37.5702	37.5924	37.6146	37.6368	37.6589	37.6811	37.7033
1670	37.7255	37.7476	37.7698	37.7920	37.8141	37.8363	37.8584	37.8806	37.9027	37.9249
1680	37.9470	37.9691	37.9913	38.0134	38.0355	38.0576	38.0798	38.1019	38.1240	38.1461
1690	38.1682	38.1903	38.2124	38.2345	38.2566	38.2787	38.3008	38.3229	38.3450	38.3671
1700	38.3891	38.4112	38.4333	38.4553	38.4774	38.4995	38.5215	38.5436	38.5656	38.5877
1710	38.6097	38.6318	38.6538	38.6758	38.6979	38.7199	38.7419	38.7640	38.7860	38.8080
1720	38.8300	38.8520	38.8740	38.8960	38.9180	38.9400	38.9620	38.9840	39.0060	39.0280
1730	39.0500	39.0720	39.0939	39.1159	39.1379	39.1598	39.1818	39.2038	39.2257	39.2477
1740	39.2696	39.2916	39.3135	39.3355	39.3574	39.3793	39.4013	39.4232	39.4451	39.4671
1750	39.4890	39.5109	39.5328	39.5547	39.5766	39.5985	39.6204	39.6423	39.6642	39.6861
1760	39.7080	39.7299	39.7518	39.7737	39.7955	39.8174	39.8393	39.8611	39.8830	39.9049
1770	39.9267	39.9486	39.9704	39.9923	40.0141	40.0360	40.0578	40.0796	40.1015	40.1233
1780	40.1451	40.1669	40.1888	40.2106	40.2324	40.2542	40.2760	40.2978	40.3196	40.3414
1790	40.3632	40.3850	40.4068	40.4286	40.4503	40.4721	40.4939	40.5157	40.5374	40.5592
1800	40.5809	40.6027	40.6245	40.6462	40.6680	40.6897	40.7114	40.7332	40.7549	40.7767
1810	40.7984	40.8201	40.8418	40.8636	40.8853	40.9070	40.9287	40.9504	40.9721	40.9938
1820	41.0155	41.0372	41.0589	41.0806	41.1023	41.1239	41.1456	41.1673	41.1890	41.2106
1830	41.2323	41.2539	41.2756	41.2973	41.3189	41.3406	41.3622	41.3838	41.4055	41.4271
1840	41.4488	41.4704	41.4920	41.5136	41.5352	41.5569	41.5785	41.6001	41.6217	41.6433
1850	41.6649	41.6865	41.7081	41.7297	41.7513	41.7728	41.7944	41.8160	41.8376	41.8591
1860	41.8807	41.9023	41.9238	41.9454	41.9669	41.9885	42.0100	42.0316	42.0531	42.0746
1870	42.0962	42.1177	42.1392	42.1608	42.1823	42.2038	42.2253	42.2468	42.2683	42.2898
1880	42.3113	42.3328	42.3543	42.3758	42.3973	42.4188	42.4403	42.4617	42.4832	42.5047
1890	42.5261	42.5476	42.5691	42.5905	42.6120	42.6334	42.6549	42.6763	42.6977	42.7192
1900	42.7406	42.7620	42.7835	42.8049	42.8263	42.8477	42.8691	42.8905	42.9119	42.9333

Temperature vs Millivolt Table Reference Junction 32°F



Temperature Range Maximum Useful Temperature Range: Thermocouple Grade: -328 to 2282°F -200 to 1250°C Extension Grade: 32 to 392°F 0 to 200°C	Maximum Thermocouple Grade Temperature Range -454 to 2501°F -270 to 1372°C Accuracy: Standard: 2.2°C or 0.75% Special: 1.1°C or 0.4%
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Recommended Applications:
 Clean Oxidizing and Inert Environments, Limited Use in Vacuum or Reducing Environment

Temp	0	1	2	3	4	5	6	7	8	9
2380	52.5654	52.5847	52.6041	52.6235	52.6428	52.6622	52.6815	52.7008	52.7202	52.7395
2390	52.7588	52.7781	52.7974	52.8167	52.8361	52.8553	52.8746	52.8939	52.9132	52.9325
2400	52.9518	52.9710	52.9903	53.0096	53.0288	53.0481	53.0673	53.0866	53.1058	53.1250
2410	53.1443	53.1635	53.1827	53.2019	53.2211	53.2403	53.2595	53.2787	53.2979	53.3171
2420	53.3363	53.3554	53.3746	53.3938	53.4129	53.4321	53.4512	53.4704	53.4895	53.5087
2430	53.5278	53.5469	53.5661	53.5852	53.6043	53.6234	53.6425	53.6616	53.6807	53.6998
2440	53.7189	53.7380	53.7571	53.7761	53.7952	53.8143	53.8333	53.8524	53.8714	53.8905
2450	53.9095	53.9286	53.9476	53.9666	53.9857	54.0047	54.0237	54.0427	54.0617	54.0807
2460	54.0997	54.1187	54.1377	54.1567	54.1757	54.1947	54.2136	54.2326	54.2516	54.2705
2470	54.2895	54.3084	54.3274	54.3463	54.3653	54.3842	54.4031	54.4221	54.4410	54.4599
2480	54.4788	54.4977	54.5166	54.5355	54.5544	54.5733	54.5922	54.6111	54.6300	54.6489
2490	54.6677	54.6866	54.7055	54.7243	54.7432	54.7620	54.7809	54.7997	54.8186	54.8374
2500	54.8562	54.8751								