

ITS – 90 Table for B - Type Thermocouple (Reference Junction at 0 °C)

- Thermoelectric voltage in mV for 5 °C Temperature steps

°C	0	5	10	15	20	25	30	35	40	45
0	0.000	-0.001	-0.002	-0.002	-0.003	-0.002	-0.002	-0.001	0.000	0.001
50	0.002	0.004	0.006	0.009	0.011	0.014	0.017	0.021	0.025	0.029
100	0.033	0.038	0.043	0.048	0.053	0.059	0.065	0.072	0.078	0.085
150	0.092	0.099	0.107	0.115	0.123	0.132	0.141	0.150	0.159	0.168
200	0.178	0.188	0.199	0.209	0.220	0.231	0.243	0.255	0.267	0.279
250	0.291	0.304	0.317	0.330	0.344	0.358	0.372	0.386	0.401	0.416
300	0.431	0.446	0.462	0.478	0.494	0.510	0.527	0.544	0.561	0.578
350	0.596	0.614	0.632	0.650	0.669	0.688	0.707	0.727	0.746	0.766
400	0.787	0.807	0.828	0.849	0.870	0.891	0.913	0.935	0.957	0.979
450	1.002	1.025	1.048	1.071	1.095	1.119	1.143	1.167	1.192	1.217
500	1.242	1.267	1.293	1.318	1.344	1.371	1.397	1.424	1.451	1.478
550	1.505	1.533	1.561	1.589	1.617	1.646	1.675	1.704	1.733	1.762
600	1.792	1.822	1.852	1.882	1.913	1.944	1.975	2.006	2.037	2.069
650	2.101	2.133	2.165	2.197	2.230	2.263	2.296	2.329	2.363	2.397
700	2.431	2.465	2.499	2.534	2.569	2.604	2.639	2.674	2.710	2.746
750	2.782	2.818	2.854	2.891	2.928	2.965	3.002	3.040	3.078	3.116
800	3.154	3.192	3.230	3.269	3.308	3.347	3.386	3.426	3.466	3.506
850	3.546	3.586	3.626	3.667	3.708	3.749	3.790	3.832	3.873	3.915
900	3.957	3.999	4.041	4.084	4.127	4.170	4.213	4.256	4.299	4.343
950	4.387	4.431	4.475	4.519	4.564	4.608	4.653	4.698	4.743	4.789
1000	4.834	4.880	4.926	4.972	5.018	5.065	5.111	5.158	5.205	5.252
1050	5.299	5.346	5.394	5.441	5.489	5.537	5.585	5.634	5.682	5.731
1100	5.780	5.828	5.878	5.927	5.976	6.026	6.075	6.125	6.175	6.225
1150	6.276	6.326	6.377	6.427	6.478	6.529	6.580	6.632	6.683	6.735
1200	6.786	6.838	6.890	6.942	6.995	7.047	7.100	7.152	7.205	7.258
1250	7.311	7.364	7.417	7.471	7.524	7.578	7.632	7.686	7.740	7.794
1300	7.848	7.903	7.957	8.012	8.066	8.121	8.176	8.231	8.286	8.342
1350	8.397	8.453	8.508	8.564	8.620	8.675	8.731	8.787	8.844	8.900
1400	8.956	9.013	9.069	9.126	9.182	9.239	9.296	9.353	9.410	9.467
1450	9.524	9.581	9.639	9.696	9.753	9.811	9.868	9.926	9.984	10.041
1500	10.099	10.157	10.215	10.273	10.331	10.389	10.447	10.505	10.563	10.621
1550	10.679	10.738	10.796	10.854	10.913	10.971	11.029	11.088	11.146	11.205
1600	11.263	11.321	11.380	11.438	11.497	11.555	11.614	11.673	11.731	11.790
1650	11.848	11.907	11.965	12.024	12.082	12.141	12.199	12.257	12.316	12.374
1700	12.433	12.491	12.549	12.607	12.666	12.724	12.782	12.840	12.898	12.956
1750	13.014	13.072	13.130	13.188	13.246	13.304	13.361	13.419	13.476	13.534
1800	13.591	13.649	13.706	13.763	13.820					