

**ITS – 90 Table for K- 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
-300							-6.458	-6.452	-6.441	-6.425
-250	-6.404	-6.377	-6.344	-6.306	-6.262	-6.213	-6.158	-6.099	-6.035	-5.965
-200	-5.891	-5.813	-5.730	-5.642	-5.550	-5.454	-5.354	-5.250	-5.141	-5.029
-150	-4.913	-4.793	-4.669	-4.542	-4.411	-4.276	-4.138	-3.997	-3.852	-3.705
-100	-3.554	-3.400	-3.243	-3.083	-2.920	-2.755	-2.587	-2.416	-2.243	-2.067
-50	-1.889	-1.709	-1.527	-1.343	-1.156	-0.968	-0.778	-0.586	-0.392	-0.197
0	0.000	0.198	0.397	0.597	0.798	1.000	1.203	1.407	1.612	1.817
50	2.023	2.230	2.436	2.644	2.851	3.059	3.267	3.474	3.682	3.889
100	4.096	4.303	4.509	4.715	4.920	5.124	5.328	5.532	5.735	5.937
150	6.138	6.339	6.540	6.741	6.941	7.140	7.340	7.540	7.739	7.939
200	8.138	8.338	8.539	8.739	8.940	9.141	9.343	9.545	9.747	9.950
250	10.153	10.357	10.561	10.766	10.971	11.176	11.382	11.588	11.795	12.001
300	12.209	12.416	12.624	12.831	13.040	13.248	13.457	13.665	13.874	14.084
350	14.293	14.503	14.713	14.923	15.133	15.343	15.554	15.764	15.975	16.186
400	16.397	16.608	16.820	17.031	17.243	17.455	17.667	17.879	18.091	18.303
450	18.516	18.728	18.941	19.154	19.366	19.579	19.792	20.005	20.218	20.431
500	20.644	20.857	21.071	21.284	21.497	21.710	21.924	22.137	22.350	22.563
550	22.776	22.990	23.203	23.416	23.629	23.842	24.055	24.267	24.480	24.693
600	24.905	25.118	25.330	25.543	25.755	25.967	26.179	26.390	26.602	26.814
650	27.025	27.236	27.447	27.658	27.869	28.079	28.289	28.500	28.710	28.919
700	29.129	29.338	29.548	29.757	29.965	30.174	30.382	30.590	30.798	31.006
750	31.213	31.421	31.628	31.834	32.041	32.247	32.453	32.659	32.865	33.070
800	33.275	33.480	33.685	33.889	34.093	34.297	34.501	34.704	34.908	35.110
850	35.313	35.516	35.718	35.920	36.121	36.323	36.524	36.725	36.925	37.126
900	37.326	37.526	37.725	37.925	38.124	38.323	38.522	38.720	38.918	39.116
950	39.314	39.511	39.708	39.905	40.101	40.298	40.494	40.690	40.885	41.081
1000	41.276	41.470	41.665	41.859	42.053	42.247	42.440	42.633	42.826	43.019
1050	43.211	43.403	43.595	43.787	43.978	44.169	44.359	44.550	44.740	44.929
1100	45.119	45.308	45.497	45.685	45.873	46.061	46.249	46.436	46.623	46.809
1150	46.995	47.181	47.367	47.552	47.737	47.921	48.105	48.289	48.473	48.656
1200	48.838	49.021	49.202	49.384	49.565	49.746	49.926	50.106	50.286	50.465

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