

**ITS – 90 Table for J - 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
-250									-8.095	-7.996
-200	-7.890	-7.778	-7.659	-7.534	-7.403	-7.265	-7.123	-6.975	-6.821	-6.663
-150	-6.500	-6.332	-6.159	-5.982	-5.801	-5.616	-5.426	-5.233	-5.037	-4.836
-100	-4.633	-4.425	-4.215	-4.002	-3.786	-3.566	-3.344	-3.120	-2.893	-2.663
-50	-2.431	-2.197	-1.961	-1.722	-1.482	-1.239	-0.995	-0.749	-0.501	-0.251
0	0.000	0.253	0.507	0.762	1.019	1.277	1.537	1.797	2.059	2.322
50	2.585	2.850	3.116	3.382	3.650	3.918	4.187	4.456	4.726	4.997
100	5.269	5.541	5.814	6.087	6.360	6.634	6.909	7.184	7.459	7.734
150	8.010	8.286	8.562	8.839	9.115	9.392	9.669	9.947	10.224	10.501
200	10.779	11.056	11.334	11.612	11.889	12.167	12.445	12.722	13.000	13.278
250	13.555	13.833	14.110	14.388	14.665	14.942	15.219	15.496	15.773	16.050
300	16.327	16.604	16.881	17.157	17.434	17.710	17.986	18.262	18.538	18.814
350	19.090	19.366	19.642	19.918	20.194	20.469	20.745	21.021	21.297	21.572
400	21.848	22.124	22.400	22.676	22.952	23.228	23.504	23.780	24.057	24.333
450	24.610	24.887	25.164	25.442	25.720	25.998	26.276	26.555	26.834	27.113
500	27.393	27.673	27.953	28.234	28.516	28.798	29.080	29.363	29.647	29.931
550	30.216	30.502	30.788	31.074	31.362	31.650	31.939	32.229	32.519	32.810
600	33.102	33.395	33.689	33.984	34.279	34.575	34.873	35.171	35.470	35.770
650	36.071	36.373	36.675	36.979	37.284	37.590	37.896	38.204	38.512	38.822
700	39.132	39.443	39.755	40.068	40.382	40.696	41.012	41.328	41.645	41.962
750	42.281	42.599	42.919	43.239	43.559	43.881	44.203	44.525	44.848	45.171

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