

Thermocouple Curves – Chromel versus Gold/Iron

Chromel vs. Au-0.03 at.% Fe	
Temp (K)	V_{Tc}(mV)
3.5	-4.6676
8.0	-4.6067
13.5	-4.5259
18.0	-4.4571
24.0	-4.3703
30.0	-4.2869
52.0	-3.9928
60.0	-3.8830
65.0	-3.8126
70.0	-3.7411
80.0	-3.5948
90.0	-3.4436
105.0	-3.2026
115.0	-3.0374
125.0	-2.8689
135.0	-2.6957
145.0	-2.5184
160.0	-2.2468
170.0	-2.0615
180.0	-1.8725
195.0	-1.5839
210.0	-1.2905
225.0	-0.9912
240.0	-0.6847
265.0	-0.1670
275.0	+0.0378
285.0	+0.2387
305.0	+0.6350
325.0	+1.0387

Chromel vs. Au-0.07 at.% Fe	
Temp (K)	V_{Tc}(mV)
1.4	-5.2982
3.0	-5.2815
4.8	-5.2594
7.0	-5.2285
10.5	-5.1742
19.0	-5.0315
26.0	-4.9126
48.0	-4.5494
58.0	-4.3810
70.0	-4.1733
80.0	-3.9952
90.0	-3.8132
100.0	-3.6270
110.0	-3.4370
120.0	-3.2435
135.0	-2.9477
150.0	-2.6452
165.0	-2.3372
180.0	-2.0242
200.0	-1.6004
220.0	-1.1693
245.0	-0.6232
270.0	-0.0705
300.0	+0.5986
305.0	+0.7158
310.0	+0.8431
315.0	+0.9944
320.0	+1.1940
325.0	+1.4841

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