



NOCKERS
 ENGINEERING PRODUCTS

NICHROME STRIP: RESISTANCE AND WEIGHT TABLE

Thickness x Width (mm)	Cross* Section (mm ²)	Ni80Cr20			Ni60Cr15		
		Resistivity (1.09 ± 0.05µΩ-m)			Resistivity (1.12 ± 0.05µΩ-m)		
		Resistance Per Metre 20°C Ω/m	Length Per Kg (m/kg)	Weight Per Metre (kg/m)	Resistance Per Metre 20°C Ω/m	Length Per Kg (m/kg)	Weight Per Metre (kg/m)
10x0.5	4.9	0.222	24.30	0.04116	0.2265	24.89	0.04018
0.8	7.84	0.139	15.18	0.06586	0.1416	15.56	0.06429
1.0	9.8	0.115	12.15	0.08232	0.1163	12.44	0.08036
1.2	11.76	0.0961	10.12	0.09878	0.0969	10.37	0.09643
1.5	14.7	0.0769	8.10	0.1235	0.0776	8.30	0.1205
2.0	19.6	0.0577	6.08	0.1646	0.0582	6.22	0.1607
15x0.8	11.76	0.0927	10.12	0.09878	0.0944	10.37	0.09643
1.0	14.7	0.0769	8.10	0.1235	0.0776	8.30	0.1205
1.2	17.64	0.0641	6.75	0.1482	0.0646	6.91	0.1446
1.5	22.05	0.0512	5.40	0.1852	0.0517	5.53	0.1808
2.0	29.4	0.0384	4.05	0.2470	0.0388	4.15	0.2411
2.5	36.75	0.0307	3.24	0.3087	0.0310	3.32	0.3014
20x0.8	15.68	0.0695	7.59	0.1317	0.0708	7.78	0.1286
1.0	19.6	0.0577	6.07	0.1646	0.0582	6.22	0.1607
1.2	23.52	0.0480	5.06	0.1976	0.0485	5.18	0.1929
1.5	29.4	0.0384	4.05	0.2470	0.0388	4.15	0.2411
2.0	39.2	0.0288	3.04	0.3293	0.0291	3.11	0.3214
2.5	49	0.0231	2.43	0.4116	0.0233	2.49	0.4018
3.0	58.8	0.0192	2.02	0.4939	0.0194	2.07	0.4822
25x1.0	24.5	0.0461	4.86	0.2058	0.0465	4.98	0.2009
1.2	29.4	0.0384	4.05	0.2470	0.0388	4.15	0.2411
1.5	36.75	0.0307	3.24	0.3087	0.0310	3.32	0.3014
2.0	49	0.0231	2.43	0.4116	0.0233	2.49	0.4018
2.5	61.25	0.0184	1.94	0.5145	0.0186	1.99	0.5023
3.0	73.5	0.0154	1.62	0.6174	0.0155	1.66	0.6027
30x1.0	29.4	0.0384	4.05	0.2470	0.0388	4.15	0.2411
1.5	44.1	0.0256	2.70	0.3704	0.0259	2.77	0.3616
2.0	58.8	0.0192	2.02	0.4939	0.0194	2.07	0.4822
2.5	73.5	0.0154	1.62	0.6174	0.0155	1.66	0.6027
3.0	88.2	0.0128	1.35	0.7409	0.0129	1.38	0.7232
3.5	102.9	0.0111	1.16	0.8644	0.0112	1.19	0.8238
35x1.0	34.3	0.0329	3.47	0.2881	0.0332	3.56	0.2813
1.5	51.45	0.0220	2.31	0.4322	0.0222	2.37	0.4219
2.0	68.6	0.0165	1.74	0.5762	0.0166	1.78	0.5625
2.5	85.75	0.0132	1.39	0.7203	0.0133	1.42	0.7032
3.0	102.9	0.0110	1.16	0.8644	0.0111	1.19	0.8438
3.5	120.1	0.0095	0.99	1.0088	0.0096	1.02	0.9848
40x1.0	39.2	0.0288	3.04	0.3293	0.0291	3.11	0.3214
1.5	58.8	0.0192	2.02	0.4939	0.0194	2.07	0.4822
2.0	78.4	0.0144	1.52	0.6586	0.0145	1.56	0.6429
2.5	98	0.0115	1.21	0.8232	0.0116	1.24	0.8036
3.0	117.6	0.0096	1.01	0.9878	0.0097	1.04	0.9643
3.5	137.2	0.0083	0.87	1.1525	0.0084	0.89	1.1250
4.0	156.8	0.0073	0.76	1.3171	0.0073	0.78	1.2858

* The effective cross-sectional area = Width x Thickness x 0.98