



# ELECTROVEK-STEEL

D N I P R O P E T R O V S K C I T Y , U K R A I N E

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## CHART#1 FE-CR-AL STRIP PROPERTIES

Thickness x width	Cross sectional area (mm <sup>2</sup> )	0Cr23Al5			0Cr21Al4 (Kanthal D)		
		Resistivity at 20°C $\mu\Omega\cdot m 1.42\pm 0.06$			Resistivity at 20°C $\mu\Omega\cdot m 1.23\pm 0.06$		
		Resistance per meter at 20°C ( $\Omega/m$ )	Length per kilogram (m/kg)	Weight per meter (kg/m)	Resistance per meter at 20°C ( $\Omega/m$ )	Length per kilogram (m/kg)	Weight per meter (kg/m)
0.08 x 0.2	0.0152	93.42	9266	0.000108	80.92	8951	0.000112
0.4	0.0304	46.71	4633	0.000216	40.46	4475	0.000223
0.6	0.0456	31.14	3.89	0.000324	26.97	2984	0.000335
0.8	0.0608	23.36	2317	0.000432	20.23	2238	0.000447
1	0.076	18.68	1584	0.000540	16.18	1790	0.000559
1.2	0.0912	15.57	1544	0.000648	13.49	1492	0.000670
1.5	0.114	12.46	1235	0.000809	10.79	1193	0.000838
0.1 x 0.2	0.019	74.74	7413	0.000135	64.74	7161	0.000140
0.4	0.038	37.37	3706	0.000270	32.37	3580	0.000279
0.6	0.057	24.91	2471	0.000405	21.58	2387	0.000419
0.8	0.076	18.68	1853	0.000540	16.18	1790	0.000559
1	0.095	14.95	1483	0.000675	12.95	1432	0.000698
1.5	0.143	9.930	985	0.00102	8.601	951	0.00105
2	0.19	7.474	741	0.00135	6.474	716	0.00140
0.15 x 0.2	0.0285	49.82	4942	0.000202	43.16	4773	0.000209
0.4	0.057	24.91	2471	0.000405	21.58	2387	0.000419
0.6	0.0855	16.61	1647	0.000607	14.39	1591	0.000628
0.8	0.114	12.46	1235	0.000809	10.79	1193	0.000838
1	0.143	9.930	985	0.00102	8.601	951	0.00105
1.5	0.214	6.636	658	0.00152	5.748	636	0.00157
2	0.285	4.982	494	0.00202	4.316	477	0.00209
0.2 x 0.4	0.076	18.68	1853	0.000540	16.18	1790	0.000559
0.6	0.114	12.46	1235	0.000809	10.79	1193	0.000838
0.8	0.152	9.342	927	0.00108	8.092	895	0.00112
1	0.19	7.474	741	0.00135	6.474	716	0.00140
1.5	0.285	4.982	494	0.00202	4.316	477	0.00209
2	0.38	3.373	371	0.00270	3.237	358	0.00279
3	0.57	2.491	247	0.00405	2.158	239	0.00419
0.4 x 0.6	0.228	6.228	618	0.00162	5.395	597	0.00168
0.8	0.304	4.671	463	0.00216	4.046	448	0.00223
1	0.38	3.373	371	0.00270	3.237	358	0.00279
1.5	0.57	2.491	247	0.00405	2.158	239	0.00419
2	0.76	1.868	185	0.00540	1.618	179	0.00559
3	1.14	1.246	124	0.00809	1.079	119	0.00838
4	1.52	0.9342	92.7	0.01079	0.809	90	0.0112
0.6 x 0.8	0.456	3.114	309	0.00324	2.697	298	0.00335
1	0.57	2.491	247	0.00405	2.158	239	0.00419
1.5	0.855	1.661	165	0.00607	1.439	159	0.00628
2	1.14	1.246	124	0.00809	1.079	119	0.00838
3	1.71	0.8304	82.4	0.01214	0.719	80	0.0126
4	2.28	0.6228	61.8	0.01619	0.540	60	0.0168
0.8 x 1.0	0.76	1.868	185	0.00540	1.618	179	0.00559
1.5	1.14	1.246	124	0.00809	1.079	119	0.00838
2	1.52	0.9342	92.7	0.01079	0.8092	90	0.0112
3	2.28	0.6228	61.8	0.01619	0.540	60	0.0168
4	3.04	0.4671	46.3	0.02158	0.405	45	0.0223
1.0 x 1.5	1.425	0.9965	98.8	0.01012	0.863	95	0.0105

2	1.9	0.7474	74.1	0.01349	0.647	72	0.0140
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## CHART#2 FE-CR-AL STRIP PROPERTIES

Thickness x width	Cross sectional area (mm <sup>2</sup> )	0Cr23Al5			0Cr21Al4 (Kanthal D)		
		Resistivity at 20°C $\mu\Omega \cdot m1.42 \pm 0.06$			Resistivity at 20°C $\mu\Omega \cdot m1.23 \pm 0.06$		
		Resistance per meter at 20°C ( $\Omega/M$ )	Length per kilogram (m/kg)	Weight per meter (kg/m)	Resistance per meter at 20°C ( $\Omega/M$ )	Length per kilogram (m/kg)	Weight per meter (kg/m)
1.0 x 3	2.85	0.4982	49.4	0.02024	0.432	48	0.0209
4	3.8	0.3737	37.1	0.02698	0.324	36	0.0279
10 x 0.5	4.9	0.2900	28.74	0.03479	0.2510	27.76	0.03602
0.8	7.84	0.1811	17.97	0.05566	0.1569	17.35	0.05762
1	9.8	0.1449	14.37	0.06958	0.1255	13.88	0.07203
1.2	11.76	0.1207	11.98	0.08350	0.1046	11.57	0.08644
1.5	14.7	0.0966	9.58	0.10437	0.0837	9.26	0.10805
2	19.6	0.0724	7.19	0.13920	0.0628	6.94	0.14406
15 x 0.8	11.76	0.1207	11.98	0.08350	0.1046	11.57	0.08644
1	14.7	0.0966	9.58	0.10437	0.0837	9.26	0.10805
1.2	17.64	0.0805	7.98	0.12524	0.0697	7.71	0.1297
1.5	22.05	0.0644	6.39	0.15656	0.0558	6.17	0.16207
2	29.4	0.0483	4.79	0.20874	0.0418	4.63	0.21609
2.5	36.75	0.0386	3.83	0.26093	0.0335	3.70	0.27011
20 x 0.8	15.68	0.0906	8.98	0.11133	0.0784	8.68	0.11525
1	19.6	0.0724	7.19	0.13916	0.0628	6.94	0.14406
1.2	23.52	0.0604	5.99	0.16699	0.0523	5.78	0.17287
1.5	29.4	0.0483	4.79	0.20874	0.0418	4.63	0.21609
2	39.2	0.0362	3.59	0.27832	0.0314	3.47	0.28812
2.5	49	0.0290	2.87	0.34790	0.0251	2.78	0.36015
3	58.8	0.0241	2.40	0.41748	0.0209	2.31	0.43218
25 x 1.0	24.5	0.0580	5.75	0.17395	0.0502	5.55	0.18008
1.2	29.4	0.0483	4.79	0.20874	0.0418	4.63	0.21609
1.5	36.75	0.0386	3.83	0.26093	0.0335	3.70	0.27011
2	49	0.0290	2.87	0.34790	0.0251	2.78	0.36015
2.5	61.25	0.0232	2.30	0.43488	0.0201	2.22	0.45019
3	73.5	0.0193	1.92	0.52185	0.0167	1.85	0.54023
30 x 1.0	29.4	0.0483	4.79	0.20874	0.0418	4.63	0.21609
1.5	44.1	0.0322	3.19	0.31311	0.0279	3.09	0.32414
2	58.8	0.0241	2.40	0.41748	0.0209	2.31	0.43218
2.5	73.5	0.0193	1.92	0.52185	0.0167	1.85	0.54023
3	88.2	0.0161	1.60	0.62622	0.0139	1.54	0.64827
3.5	102.9	0.0138	1.37	0.73059	0.0120	1.32	0.75632
35 x 1.0	34.3	0.0414	4.11	0.24353	0.0359	3.97	0.25211
1.5	51.45	0.0276	2.74	0.36530	0.0239	2.64	0.37816
2	68.6	0.0207	2.05	0.48706	0.0179	1.98	0.50421
2.5	85.75	0.0166	1.64	0.60883	0.0143	1.59	0.63026
3	102.9	0.0138	1.37	0.73059	0.0120	1.32	0.75632
3.5	120.1	0.0118	1.17	0.85271	0.0102	1.13	0.88274
40 x 1.0	39.2	0.0362	3.59	0.27832	0.0314	3.47	0.28812
1.5	58.8	0.0241	2.40	0.41748	0.0209	2.31	0.43218
2	78.4	0.0181	1.80	0.55664	0.0157	1.74	0.57624
2.5	98	0.0145	1.44	0.69580	0.0126	1.39	0.72030
3	117.6	0.0121	1.20	0.83496	0.0105	1.16	0.86436
3.5	137.2	0.0103	1.03	0.97412	0.0090	0.99	1.00842

4	156.8	0.0091	0.898	1.11328	0.0078	0.87	1.15248
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