Heating Strip

NiCr & Fe-Cr-Al · ten grades · GB/T 1234-2012

Wide flat strip for furnace elements, heating panels and band heaters, in ten grades up to 300 mm wide.

5 – 300 mm	0.05 – 4.0 mm	10	44
WIDTH RANGE	THICKNESS RANGE	GRADES · NICR AND FE-CR-AL	SIZES PER GRADE

PRODUCT OVERVIEW

Heating strip is the wide flat form of our resistance heating alloys, supplied in widths from 5.0 to 300 mm and thicknesses from 0.05 to 4.0 mm. Ten grades are tabulated: four nickel-chromium and six iron-chromium-aluminium, five grade pairs to a table.

Strip is the standard starting point for band heaters, heating panels and furnace elements, and for any duty where the element covers a broad flat area rather than a narrow path. Cold-rolled strip carries the tighter tolerances and the lighter gauges, hot-rolled strip the heavier ones.

The tables give resistance per metre, yield length per kilogram and weight per metre for each combination, calculated at 20 °C from the nominal section and the resistivity of the grade.

GRADES COVERED

Grade	Family	Resistivity at 20 °C (μΩ·m)
Cr20Ni80	Nickel-chromium	1.09–1.14 ± 0.05
Cr15Ni60	Nickel-chromium	1.11–1.15 ± 0.05
Cr30Ni70	Nickel-chromium	1.18–1.20 ± 0.05
Cr20Ni35/Cr20Ni30	Nickel-chromium	1.04 ± 0.05
0Cr25Al5	Iron-chromium-aluminium	1.42 ± 0.07
Cr21Al6Nb	Iron-chromium-aluminium	1.45 ± 0.07
0Cr23Al5	Iron-chromium-aluminium	1.35 ± 0.07
0Cr20Al6RE	Iron-chromium-aluminium	1.40 ± 0.07
0Cr20Al3	Iron-chromium-aluminium	1.23 ± 0.07
0Cr24Al6RE	Iron-chromium-aluminium	1.48 ± 0.07

SUPPLY RANGE

Item	Available
Cold-rolled	Thickness 0.05 – 4.0 mm, width 5.0 – 300 mm
Hot-rolled	Thickness 2.5 – 20.0 mm, width 15.0 – 300 mm
Edge condition	Rolled edge, as tabulated; slit edge also
Supply form	Coils, cut lengths, stamped blanks

CR20NI80 AND CR15NI60

Resistance, yield length and weight per metre at 20 °C for each width × thickness combination.

NICKEL-CHROMIUM		CR20NI80			CR15NI60		
Width × thickness (mm)	Section (mm²)	Ω/m at 20 °C	m/kg	g/m	Ω/m at 20 °C	m/kg	g/m
10 × 0.5	4.9	0.2224	24.30	41.16	0.2265	24.89	40.18
10 × 0.8	7.84	0.1390	15.18	65.86	0.1416	15.56	64.29
10 × 1.0	9.8	0.1153	12.15	82.32	0.1163	12.44	80.36
10 × 1.2	11.76	0.0961	10.12	98.78	0.0969	10.37	96.43
10 × 1.5	14.7	0.0769	8.10	123.48	0.0776	8.30	120.54
10 × 2.0	19.6	0.0577	6.07	164.64	0.0582	6.22	160.72
15 × 0.8	11.76	0.0927	10.12	98.78	0.0944	10.37	96.43
15 × 1.0	14.7	0.0769	8.10	123.48	0.0776	8.30	120.54
15 × 1.2	17.64	0.0641	6.75	148.18	0.0646	6.91	144.65
15 × 1.5	22.05	0.0512	5.40	185.22	0.0517	5.53	180.81
15 × 2.0	29.4	0.0384	4.05	246.96	0.0388	4.15	241.08
15 × 2.5	36.75	0.0307	3.24	308.70	0.0310	3.32	301.35
20 × 0.8	15.68	0.0695	7.59	131.71	0.0708	7.78	128.58
20 × 1.0	19.6	0.0577	6.07	164.64	0.0582	6.22	160.72
20 × 1.2	23.52	0.0480	5.06	197.57	0.0485	5.19	192.86
20 × 1.5	29.4	0.0384	4.05	246.96	0.0388	4.15	241.08
20 × 2.0	39.2	0.0288	3.04	329.28	0.0291	3.11	321.44
20 × 2.5	49	0.0231	2.43	411.60	0.0233	2.49	401.80
20 × 3.0	58.8	0.0192	2.02	493.92	0.0194	2.07	482.16
25 × 1.0	24.5	0.0461	4.86	205.80	0.0465	4.98	200.90
25 × 1.2	29.4	0.0384	4.05	246.96	0.0388	4.15	241.08
25 × 1.5	36.75	0.0307	3.24	308.70	0.0310	3.32	301.35
25 × 2.0	49	0.0231	2.43	411.60	0.0233	2.49	401.80
25 × 2.5	61.25	0.0184	1.94	514.50	0.0186	1.99	502.25
25 × 3.0	73.5	0.0154	1.62	617.40	0.0155	1.66	602.70
30 × 1.0	29.4	0.0384	4.05	246.96	0.0388	4.15	241.08
30 × 1.5	44.1	0.0256	2.70	370.44	0.0259	2.77	361.62
30 × 2.0	58.8	0.0192	2.02	493.92	0.0194	2.07	482.16
30 × 2.5	73.5	0.0154	1.62	617.40	0.0155	1.66	602.70
30 × 3.0	88.2	0.0128	1.35	740.88	0.0129	1.38	723.24
30 × 3.5	102.9	0.0110	1.16	864.36	0.0111	1.19	843.78
35 × 1.0	34.3	0.0329	3.47	288.12	0.0332	3.56	281.26
35 × 1.5	51.45	0.0220	2.31	432.18	0.0222	2.37	421.89
35 × 2.0	68.6	0.0165	1.74	576.24	0.0166	1.78	562.52
35 × 2.5	85.75	0.0132	1.39	720.30	0.0133	1.42	703.15
35 × 3.0	102.9	0.0110	1.16	864.36	0.0111	1.19	843.78
35 × 3.5	120.1	0.0095	0.99	1008.42	0.0096	1.02	984.41
40 × 1.0	39.2	0.0288	3.04	329.28	0.0291	3.11	321.44
40 × 1.5	58.8	0.0192	2.02	493.92	0.0194	2.07	482.16
40 × 2.0	78.4	0.0144	1.52	658.56	0.0145	1.56	642.88
40 × 2.5	98	0.0115	1.21	823.20	0.0116	1.24	803.60
40 × 3.0	117.6	0.0096	1.01	987.84	0.0097	1.04	964.32
40 × 3.5	137.2	0.0083	0.87	1152.48	0.0084	0.89	1125.04
40 × 4.0	156.8	0.0073	0.76	1317.12	0.0073	0.78	1285.76

CR30NI70 AND CR20NI35/CR20NI30

Resistance, yield length and weight per metre at 20 °C for each width × thickness combination.

NICKEL-CHROMIUM		CR30NI70			CR20NI35/CR20NI30		
Width × thickness (mm)	Section (mm²)	Ω/m at 20 °C	m/kg	g/m	Ω/m at 20 °C	m/kg	g/m
10 × 0.5	4.9	0.2408	25.20	39.69	0.2122	25.83	38.71
10 × 0.8	7.84	0.1505	15.75	63.50	0.1327	16.15	61.94
10 × 1.0	9.8	0.1214	12.60	79.38	0.1061	12.92	77.42
10 × 1.2	11.76	0.1012	10.50	95.26	0.0884	10.76	92.90
10 × 1.5	14.7	0.0810	8.40	119.07	0.0707	8.61	116.13
10 × 2.0	19.6	0.0607	6.30	158.76	0.0531	6.46	154.84
15 × 0.8	11.76	0.1003	10.50	95.26	0.0884	10.76	92.90
15 × 1.0	14.7	0.0810	8.40	119.07	0.0707	8.61	116.13
15 × 1.2	17.64	0.0675	7.00	142.88	0.0590	7.18	139.36
15 × 1.5	22.05	0.0540	5.60	178.61	0.0472	5.74	174.20
15 × 2.0	29.4	0.0405	4.20	238.14	0.0354	4.31	232.26
15 × 2.5	36.75	0.0324	3.36	297.68	0.0283	3.44	290.33
20 × 0.8	15.68	0.0753	7.87	127.01	0.0663	8.07	123.87
20 × 1.0	19.6	0.0607	6.30	158.76	0.0531	6.46	154.84
20 × 1.2	23.52	0.0506	5.25	190.51	0.0442	5.38	185.81
20 × 1.5	29.4	0.0405	4.20	238.14	0.0354	4.31	232.26
20 × 2.0	39.2	0.0304	3.15	317.52	0.0265	3.23	309.68
20 × 2.5	49	0.0243	2.52	396.90	0.0212	2.58	387.10
20 × 3.0	58.8	0.0202	2.10	476.28	0.0177	2.15	464.52
25 × 1.0	24.5	0.0486	5.04	198.45	0.0424	5.17	193.55
25 × 1.2	29.4	0.0405	4.20	238.14	0.0354	4.31	232.26
25 × 1.5	36.75	0.0324	3.36	297.68	0.0283	3.44	290.33
25 × 2.0	49	0.0243	2.52	396.90	0.0212	2.58	387.10
25 × 2.5	61.25	0.0194	2.02	496.13	0.0170	2.07	483.88
25 × 3.0	73.5	0.0162	1.68	595.35	0.0141	1.72	580.65
30 × 1.0	29.4	0.0405	4.20	238.14	0.0354	4.31	232.26
30 × 1.5	44.1	0.0270	2.80	357.21	0.0236	2.87	348.39
30 × 2.0	58.8	0.0202	2.10	476.28	0.0177	2.15	464.52
30 × 2.5	73.5	0.0162	1.68	595.35	0.0141	1.72	580.65
30 × 3.0	88.2	0.0135	1.40	714.42	0.0118	1.44	696.78
30 × 3.5	102.9	0.0116	1.20	833.49	0.0101	1.23	812.91
35 × 1.0	34.3	0.0347	3.60	277.83	0.0303	3.69	270.97
35 × 1.5	51.45	0.0231	2.40	416.75	0.0202	2.46	406.46
35 × 2.0	68.6	0.0173	1.80	555.66	0.0152	1.85	541.94
35 × 2.5	85.75	0.0139	1.44	694.58	0.0121	1.48	677.43
35 × 3.0	102.9	0.0116	1.20	833.49	0.0101	1.23	812.91
35 × 3.5	120.1	0.0099	1.03	972.41	0.0087	1.05	948.40
40 × 1.0	39.2	0.0304	3.15	317.52	0.0265	3.23	309.68
40 × 1.5	58.8	0.0202	2.10	476.28	0.0177	2.15	464.52
40 × 2.0	78.4	0.0152	1.57	635.04	0.0133	1.61	619.36
40 × 2.5	98	0.0121	1.26	793.80	0.0106	1.29	774.20
40 × 3.0	117.6	0.0101	1.05	952.56	0.0088	1.08	929.04
40 × 3.5	137.2	0.0087	0.90	1111.32	0.0076	0.92	1083.88
40 × 4.0	156.8	0.0077	0.79	1270.08	0.0066	0.81	1238.72

0CR25AL5 AND CR21AL6NB

Resistance, yield length and weight per metre at 20 °C for each width × thickness combination.

IRON-CHROMIUM-ALUMINIUM		0CR25AL5			CR21AL6NB		
Width × thickness (mm)	Section (mm²)	Ω/m at 20 °C	m/kg	g/m	Ω/m at 20 °C	m/kg	g/m
10 × 0.5	4.9	0.2898	28.74	34.79	0.2959	28.74	34.79
10 × 0.8	7.84	0.1811	17.96	55.66	0.1849	17.96	55.66
10 × 1.0	9.8	0.1449	14.37	69.58	0.1480	14.37	69.58
10 × 1.2	11.76	0.1207	11.98	83.50	0.1233	11.98	83.50
10 × 1.5	14.7	0.0966	9.58	104.37	0.0986	9.58	104.37
10 × 2.0	19.6	0.0724	7.19	139.16	0.0740	7.19	139.16
15 × 0.8	11.76	0.1207	11.98	83.50	0.1233	11.98	83.50
15 × 1.0	14.7	0.0966	9.58	104.37	0.0986	9.58	104.37
15 × 1.2	17.64	0.0805	7.98	125.24	0.0822	7.98	125.24
15 × 1.5	22.05	0.0644	6.39	156.56	0.0658	6.39	156.56
15 × 2.0	29.4	0.0483	4.79	208.74	0.0493	4.79	208.74
15 × 2.5	36.75	0.0386	3.83	260.93	0.0395	3.83	260.93
20 × 0.8	15.68	0.0906	8.98	111.33	0.0925	8.98	111.33
20 × 1.0	19.6	0.0724	7.19	139.16	0.0740	7.19	139.16
20 × 1.2	23.52	0.0604	5.99	166.99	0.0616	5.99	166.99
20 × 1.5	29.4	0.0483	4.79	208.74	0.0493	4.79	208.74
20 × 2.0	39.2	0.0362	3.59	278.32	0.0370	3.59	278.32
20 × 2.5	49	0.0290	2.87	347.90	0.0296	2.87	347.90
20 × 3.0	58.8	0.0241	2.40	417.48	0.0247	2.40	417.48
25 × 1.0	24.5	0.0580	5.75	173.95	0.0592	5.75	173.95
25 × 1.2	29.4	0.0483	4.79	208.74	0.0493	4.79	208.74
25 × 1.5	36.75	0.0386	3.83	260.93	0.0395	3.83	260.93
25 × 2.0	49	0.0290	2.87	347.90	0.0296	2.87	347.90
25 × 2.5	61.25	0.0232	2.30	434.88	0.0237	2.30	434.88
25 × 3.0	73.5	0.0193	1.92	521.85	0.0197	1.92	521.85
30 × 1.0	29.4	0.0483	4.79	208.74	0.0493	4.79	208.74
30 × 1.5	44.1	0.0322	3.19	313.11	0.0329	3.19	313.11
30 × 2.0	58.8	0.0241	2.40	417.48	0.0247	2.40	417.48
30 × 2.5	73.5	0.0193	1.92	521.85	0.0197	1.92	521.85
30 × 3.0	88.2	0.0161	1.60	626.22	0.0164	1.60	626.22
30 × 3.5	102.9	0.0138	1.37	730.59	0.0141	1.37	730.59
35 × 1.0	34.3	0.0414	4.11	243.53	0.0423	4.11	243.53
35 × 1.5	51.45	0.0276	2.74	365.30	0.0282	2.74	365.30
35 × 2.0	68.6	0.0207	2.05	487.06	0.0211	2.05	487.06
35 × 2.5	85.75	0.0166	1.64	608.83	0.0169	1.64	608.83
35 × 3.0	102.9	0.0138	1.37	730.59	0.0141	1.37	730.59
35 × 3.5	120.1	0.0118	1.17	852.36	0.0121	1.17	852.36
40 × 1.0	39.2	0.0362	3.59	278.32	0.0370	3.59	278.32
40 × 1.5	58.8	0.0241	2.40	417.48	0.0247	2.40	417.48
40 × 2.0	78.4	0.0181	1.80	556.64	0.0185	1.80	556.64
40 × 2.5	98	0.0145	1.44	695.80	0.0148	1.44	695.80
40 × 3.0	117.6	0.0121	1.20	834.96	0.0123	1.20	834.96
40 × 3.5	137.2	0.0103	1.03	974.12	0.0106	1.03	974.12
40 × 4.0	156.8	0.0091	0.90	1113.28	0.0092	0.90	1113.28

0CR23AL5 AND 0CR20AL6RE

Resistance, yield length and weight per metre at 20 °C for each width × thickness combination.

IRON-CHROMIUM-ALUMINIUM		0CR23AL5			0CR20AL6RE		
Width × thickness (mm)	Section (mm²)	Ω/m at 20 °C	m/kg	g/m	Ω/m at 20 °C	m/kg	g/m
10 × 0.5	4.9	0.2755	28.15	35.53	0.2857	28.34	35.28
10 × 0.8	7.84	0.1722	17.59	56.84	0.1786	17.72	56.45
10 × 1.0	9.8	0.1378	14.07	71.05	0.1429	14.17	70.56
10 × 1.2	11.76	0.1148	11.73	85.26	0.1190	11.81	84.67
10 × 1.5	14.7	0.0918	9.38	106.58	0.0952	9.45	105.84
10 × 2.0	19.6	0.0689	7.04	142.10	0.0714	7.09	141.12
15 × 0.8	11.76	0.1148	11.73	85.26	0.1190	11.81	84.67
15 × 1.0	14.7	0.0918	9.38	106.58	0.0952	9.45	105.84
15 × 1.2	17.64	0.0765	7.82	127.89	0.0794	7.87	127.01
15 × 1.5	22.05	0.0612	6.26	159.86	0.0635	6.30	158.76
15 × 2.0	29.4	0.0459	4.69	213.15	0.0476	4.72	211.68
15 × 2.5	36.75	0.0367	3.75	266.44	0.0381	3.78	264.60
20 × 0.8	15.68	0.0861	8.80	113.68	0.0893	8.86	112.90
20 × 1.0	19.6	0.0689	7.04	142.10	0.0714	7.09	141.12
20 × 1.2	23.52	0.0574	5.86	170.52	0.0595	5.91	169.34
20 × 1.5	29.4	0.0459	4.69	213.15	0.0476	4.72	211.68
20 × 2.0	39.2	0.0344	3.52	284.20	0.0357	3.54	282.24
20 × 2.5	49	0.0276	2.81	355.25	0.0286	2.83	352.80
20 × 3.0	58.8	0.0230	2.35	426.30	0.0238	2.36	423.36
25 × 1.0	24.5	0.0551	5.63	177.63	0.0571	5.67	176.40
25 × 1.2	29.4	0.0459	4.69	213.15	0.0476	4.72	211.68
25 × 1.5	36.75	0.0367	3.75	266.44	0.0381	3.78	264.60
25 × 2.0	49	0.0276	2.81	355.25	0.0286	2.83	352.80
25 × 2.5	61.25	0.0220	2.25	444.06	0.0229	2.27	441.00
25 × 3.0	73.5	0.0184	1.88	532.88	0.0190	1.89	529.20
30 × 1.0	29.4	0.0459	4.69	213.15	0.0476	4.72	211.68
30 × 1.5	44.1	0.0306	3.13	319.73	0.0317	3.15	317.52
30 × 2.0	58.8	0.0230	2.35	426.30	0.0238	2.36	423.36
30 × 2.5	73.5	0.0184	1.88	532.88	0.0190	1.89	529.20
30 × 3.0	88.2	0.0153	1.56	639.45	0.0159	1.57	635.04
30 × 3.5	102.9	0.0131	1.34	746.03	0.0136	1.35	740.88
35 × 1.0	34.3	0.0394	4.02	248.68	0.0408	4.05	246.96
35 × 1.5	51.45	0.0262	2.68	373.01	0.0272	2.70	370.44
35 × 2.0	68.6	0.0197	2.01	497.35	0.0204	2.02	493.92
35 × 2.5	85.75	0.0157	1.61	621.69	0.0163	1.62	617.40
35 × 3.0	102.9	0.0131	1.34	746.03	0.0136	1.35	740.88
35 × 3.5	120.1	0.0112	1.15	870.36	0.0117	1.16	864.36
40 × 1.0	39.2	0.0344	3.52	284.20	0.0357	3.54	282.24
40 × 1.5	58.8	0.0230	2.35	426.30	0.0238	2.36	423.36
40 × 2.0	78.4	0.0172	1.76	568.40	0.0179	1.77	564.48
40 × 2.5	98	0.0138	1.41	710.50	0.0143	1.42	705.60
40 × 3.0	117.6	0.0115	1.17	852.60	0.0119	1.18	846.72
40 × 3.5	137.2	0.0098	1.01	994.70	0.0102	1.01	987.84
40 × 4.0	156.8	0.0086	0.88	1136.80	0.0089	0.89	1128.96

0CR20AL3 AND 0CR24AL6RE

Resistance, yield length and weight per metre at 20 °C for each width × thickness combination.

IRON-CHROMIUM-ALUMINIUM		0CR20AL3			0CR24AL6RE		
Width × thickness (mm)	Section (mm²)	Ω/m at 20 °C	m/kg	g/m	Ω/m at 20 °C	m/kg	g/m
10 × 0.5	4.9	0.2510	27.77	36.02	0.3020	28.74	34.79
10 × 0.8	7.84	0.1569	17.35	57.62	0.1888	17.96	55.66
10 × 1.0	9.8	0.1255	13.88	72.03	0.1510	14.37	69.58
10 × 1.2	11.76	0.1046	11.57	86.44	0.1259	11.98	83.50
10 × 1.5	14.7	0.0837	9.26	108.05	0.1007	9.58	104.37
10 × 2.0	19.6	0.0628	6.94	144.06	0.0755	7.19	139.16
15 × 0.8	11.76	0.1046	11.57	86.44	0.1259	11.98	83.50
15 × 1.0	14.7	0.0837	9.26	108.05	0.1007	9.58	104.37
15 × 1.2	17.64	0.0697	7.71	129.65	0.0839	7.98	125.24
15 × 1.5	22.05	0.0558	6.17	162.07	0.0671	6.39	156.56
15 × 2.0	29.4	0.0418	4.63	216.09	0.0503	4.79	208.74
15 × 2.5	36.75	0.0335	3.70	270.11	0.0403	3.83	260.93
20 × 0.8	15.68	0.0784	8.68	115.25	0.0944	8.98	111.33
20 × 1.0	19.6	0.0628	6.94	144.06	0.0755	7.19	139.16
20 × 1.2	23.52	0.0523	5.78	172.87	0.0629	5.99	166.99
20 × 1.5	29.4	0.0418	4.63	216.09	0.0503	4.79	208.74
20 × 2.0	39.2	0.0314	3.47	288.12	0.0378	3.59	278.32
20 × 2.5	49	0.0251	2.78	360.15	0.0302	2.87	347.90
20 × 3.0	58.8	0.0209	2.31	432.18	0.0252	2.40	417.48
25 × 1.0	24.5	0.0502	5.55	180.08	0.0604	5.75	173.95
25 × 1.2	29.4	0.0418	4.63	216.09	0.0503	4.79	208.74
25 × 1.5	36.75	0.0335	3.70	270.11	0.0403	3.83	260.93
25 × 2.0	49	0.0251	2.78	360.15	0.0302	2.87	347.90
25 × 2.5	61.25	0.0201	2.22	450.19	0.0242	2.30	434.88
25 × 3.0	73.5	0.0167	1.85	540.23	0.0201	1.92	521.85
30 × 1.0	29.4	0.0418	4.63	216.09	0.0503	4.79	208.74
30 × 1.5	44.1	0.0279	3.09	324.14	0.0336	3.19	313.11
30 × 2.0	58.8	0.0209	2.31	432.18	0.0252	2.40	417.48
30 × 2.5	73.5	0.0167	1.85	540.23	0.0201	1.92	521.85
30 × 3.0	88.2	0.0139	1.54	648.27	0.0168	1.60	626.22
30 × 3.5	102.9	0.0120	1.32	756.32	0.0144	1.37	730.59
35 × 1.0	34.3	0.0359	3.97	252.11	0.0431	4.11	243.53
35 × 1.5	51.45	0.0239	2.64	378.16	0.0288	2.74	365.30
35 × 2.0	68.6	0.0179	1.98	504.21	0.0216	2.05	487.06
35 × 2.5	85.75	0.0143	1.59	630.26	0.0173	1.64	608.83
35 × 3.0	102.9	0.0120	1.32	756.32	0.0144	1.37	730.59
35 × 3.5	120.1	0.0102	1.13	882.37	0.0123	1.17	852.36
40 × 1.0	39.2	0.0314	3.47	288.12	0.0378	3.59	278.32
40 × 1.5	58.8	0.0209	2.31	432.18	0.0252	2.40	417.48
40 × 2.0	78.4	0.0157	1.74	576.24	0.0189	1.80	556.64
40 × 2.5	98	0.0126	1.39	720.30	0.0151	1.44	695.80
40 × 3.0	117.6	0.0105	1.16	864.36	0.0126	1.20	834.96
40 × 3.5	137.2	0.0090	0.99	1008.42	0.0108	1.03	974.12
40 × 4.0	156.8	0.0078	0.87	1152.48	0.0094	0.90	1113.28

DIMENSIONAL TOLERANCES

Category	Nominal thickness (mm)	Normal	Higher	Category	Nominal width (mm)	Slit · normal	Slit · higher	Untrimmed
Cold-rolled	0.050–0.100	±0.010	±0.005	Cold-rolled	5.0–10.0	±0.20	±0.10	-0.6
Cold-rolled	>0.100–0.200	±0.015	±0.010	Cold-rolled	>10.0–20.0	±0.20	±0.10	-0.8
Cold-rolled	>0.200–0.50	±0.020	±0.015	Cold-rolled	>20.0–30.0	±0.20	±0.10	-1
Cold-rolled	>0.50–1.00	±0.030	±0.025	Cold-rolled	>30.0–50.0	±0.30	±0.15	-1.2
Cold-rolled	>1.00–1.80	±0.040	±0.030	Cold-rolled	>50.0–100.0	±0.30	±0.15	±1.0
Cold-rolled	>1.80–2.50	±0.050	±0.040	Cold-rolled	>100.0–200.0	±0.50	±0.25	±1.5
Cold-rolled	>2.50–4.00	±0.060	±0.050	Cold-rolled	>200.0–300.0	±0.50	±0.25	±1.8
Hot-rolled	2.5–5.0	±0.25	±0.20	Hot-rolled	15.0–60.0	±1.5	—	—
Hot-rolled	>5.0–7.0	±0.30	±0.25	Hot-rolled	>60.0–200.0	±2.5	—	—
Hot-rolled	>7.0–10.0	±0.40	±0.35	Hot-rolled	>200.0–300.0	±3.0	—	—
Hot-rolled	>10.0–20.0	±0.50	±0.45					

Tolerance on thickness and width of strip, in millimetres. Higher precision on request.

EDGE TYPES

Slit edge — disc- or slitter-sheared; square, sharp edge with possible fine burrs and a tight width tolerance. Rolled edge (untrimmed) — uncut mill edge; slightly rounded, naturally thinner across the thickness, with a wider width tolerance. The size tables in this brochure list rolled-edge strip: for rolled edge the cross-section is width × thickness × 0.98, for slit edge width × thickness.

RESISTIVITY OF SOFT-ANNEALED MATERIAL

Alloy grade	Thickness (mm)	Resistivity (μΩ·m)	Alloy grade	Thickness (mm)	Resistivity (μΩ·m)
Cr20Ni80	≤0.80	1.09±0.05	**Cr20Ni30**	—	1.04±0.05
Cr20Ni80	>0.80–3.00	1.13±0.05	**1Cr13Al4**	0.050–4.00	1.25±0.08
Cr20Ni80	>3.00	1.14±0.05	**0Cr20Al3**	0.050–4.00	1.23±0.07
Cr30Ni70	≤0.80	1.18±0.05	**0Cr23Al5**	0.050–4.00	1.35±0.07
Cr30Ni70	>0.80–3.00	1.19±0.05	**0Cr20Al6RE**	0.050–4.00	1.40±0.07
Cr30Ni70	>3.00	1.20±0.05	**0Cr25Al5**	0.050–4.00	1.42±0.07
Cr15Ni60	≤0.80	1.11±0.05	**0Cr21Al6Nb**	0.050–4.00	1.45±0.07
Cr15Ni60	>0.80–3.00	1.14±0.05	**0Cr24Al6RE**	0.050–4.00	1.48±0.07
Cr15Ni60	>3.00	1.15±0.05	**0Cr27Al7Mo2**	0.050–4.00	1.53±0.07
Cr20Ni35	—	1.04±0.05			

Room-temperature resistivity of soft-annealed strip, by thickness band. Bright annealed unless otherwise specified.

NOTICE

Recommendations are given for guidance only. Suitability of the material can only be confirmed once the actual service conditions are known. Continuous technical development may lead to changes in these data without notice. Resistivity of soft-annealed material is given by thickness band above. Issued October 2026.