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Alloy NPS 8% Nickel Plated Steel

ASTM:	UNS: G10060
Ω/cir. mil. ft.: 82.5	Weight/Density: .288 lbs/in ² (8.0 g/cm ³)
Chemical Composition %: Core: C .06 max Low Carbon Steel (AISI/SAE 1006) Plate: 99.95% Pure Nickel 8% Free from all other trace elements	
Coeff. of Lin. Expansion, X 10⁻⁶: 13.5 (20-500°C) Conductivity:	
Specific Heat: .115 cal./gm @ 20°C	Temp. Coeff. of Resistance:
Specific Gravity: 8.0	Melting Point:
Elongation: 20% MIN	Max Operating Temp:
Yield Point: 26,000-40,000 PSI	Soft Tensile: 45,000-60,000 PSI

Diameter			Resistance @ 68° F/20° C Ω/ft	Sq. in./Ω 68°F	Weight Lb./1000 ft	Ω/lb.	Ft/Lb.	Cross sectional area (in ²)
B&S	Inches	Mm						
13	0.072	1.83	0.016	170.6	14.1	1.13	71.16	0.00407
14	0.064	1.63	0.020	119.8	11.1	1.81	90.06	0.00322
15	0.057	1.45	0.025	84.63	8.85	2.88	113.5	0.00256
16	0.051	1.29	0.032	60.62	7.02	4.50	141.8	0.00203
17	0.045	1.15	0.041	41.64	5.56	7.42	182.2	0.00161
18	0.04	1.02	0.052	29.25	4.35	11.9	230.5	0.00126
19	0.036	0.912	0.064	21.32	3.53	18.1	284.6	0.00102
20	0.032	0.812	0.081	14.97	2.78	29.0	360.2	0.000804
21	0.0285	0.723	0.102	10.58	2.20	46.1	454.1	0.000638
22	0.0253	0.644	0.129	7.400	1.75	74.3	576.2	0.000507
23	0.0226	0.573	0.162	5.275	1.39	116.6	722.1	0.000401
24	0.0201	0.51	0.204	3.711	1.09	186.4	912.9	0.000314
25	0.0179	0.455	0.257	2.621	0.878	296.4	1,151	0.000254
26	0.0159	0.405	0.326	1.837	0.688	476.0	1,459	0.000199
27	0.0142	0.361	0.409	1.308	0.546	748.3	1,829	0.000158
28	0.0126	0.321	0.520	0.914	0.432	1,207	2,323	0.000125
29	0.0113	0.286	0.646	0.659	0.346	1,866	2,888	0.000100
30	0.01	0.255	0.825	0.457	0.271	3,042	3,688	0.0000785
31	0.0089	0.227	1.04	0.322	0.216	4,849	4,655	0.0000626
32	0.008	0.202	1.29	0.234	0.171	7,427	5,762	0.0000496
33	0.0071	0.18	1.64	0.164	0.136	11,971	7,315	0.0000394
34	0.0063	0.16	2.08	0.114	0.108	19,311	9,290	0.0000312
35	0.0056	0.143	2.63	0.080	0.0854	30,931	11,758	0.0000247
36	0.005	0.127	3.30	0.0571	0.0677	48,670	14,748	0.0000196
37	0.0045	0.113	4.07	0.0416	0.0525	74,179	18,207	0.0000152
38	0.004	0.101	5.16	0.0292	0.0435	118,817	23,043	0.0000126
39	0.0035	0.09	6.73	0.0196	0.0338	202,691	30,097	0.00000979
40	0.0031	0.08	8.58	0.0136	0.0269	329,344	38,364	0.00000779
41	0.00275	0.07	10.91	0.0095	0.0213	531,808	48,749	0.00000616
42	0.0025	0.063	13.20	0.00714	0.0168	778,606	58,985	0.00000487
43	0.00225	0.057	16.30	0.00521	0.0131	1,186,693	72,820	0.00000380
44	0.0020	0.051	20.63	0.00366	0.0109	1,900,808	92,160	0.00000314
45	0.00175	0.044	26.94	0.00245	0.0084	3,242,608	120,370	0.00000243
46	0.0015	0.038	36.67	0.00154	0.0069	6,007,146	163,831	0.00000201
47	0.0014	0.036	42.09	0.00125	0.0053	7,916,169	188,069	0.00000154
48	0.0013	0.033	48.82	0.00100	0.0042	10,647,493	218,112	0.00000121