

Material	Chemical Composition (%)	Resistivity at 20°C		Coefficient of Linear Expansion between 20-100°C	Tensile Strength		Specific Gravity	Pounds per Cubic Inch	Magnetic Attraction	Approx. Melting Point (°C)
		Ohms/cmF	TCR 0-100°C		Min.	Max.				
MWS-875	22.5 Cr, 5.5 Al, .5 Si, .1 C, bal. Fe	875	.00002	.000012	105,000	175,000	7.10	.256	Strong	1520
MWS-800	75 Ni, 20 Cr, 2.5 Al, 2.5 Cu	800	.00002	.000014	100,000	200,000	8.10	.293	None	1350
MWS-675	61 Ni, 15 Cr, bal. Fe	675	.00013	.0000137	95,000	175,000	8.247	.2979	Faint	1350
MWS-650	80 Ni, 20 Cr	650	.00010	.0000132	100,000	200,000	8.412	.3039	None	1400
Stainless Steel	18 Cr, 8 Ni, bal. Fe	438	.00017	.000017	100,000	300,000	7.93	.286	None(Annealed)	1399
ALLOY 42	42 Ni, bal. Fe	390	.0010	.0000029	70,000	150,000	8.10	.295	Strong	1425
MWS-294	55 Cu, 45 Ni	294	.0002*	.0000149	60,000	135,000	8.90	.321	None	1210
MWS-294R	29 Ni, 17 Co, bal. Fe	294	.0033	.0000033	65,000	150,000	8.36	.302	Strong	1450
Manganin	13 Mn, 4 Ni, bal. Cu	290	.000015**	.0000187	40,000	90,000	8.192	.296	None	1020
ALLOY 52	50.5 Ni, bal. Fe	260	.0029	.0000049	70,000	150,000	8.25	.301	Strong	1425
MWS-180	23 Ni, bal. Cu	180	.00018	.0000159	50,000	100,000	8.90	.321	None	1100
MWS-120	70 Ni, 30 Fe	120	.0045	.000015	70,000	150,000	8.46	.305	Strong	1425
MWS-90	12 Ni, bal. Cu	90	.0004	.0000161	35,000	75,000	8.90	.321	None	1100
MWS-60	6 Ni, bal. Cu	60	.0005	.0000163	35,000	70,000	8.90	.321	None	1100
MWS-30	2 Ni, bal. Cu	30	.0013	.0000165	30,000	60,000	8.90	.321	None	1100
Nickel 205	99 Ni	57	.0048	.000013	60,000	135,000	8.90	.321	Strong	1450
Nickel 270	99.98 Ni	45	.0067	.000013	48,000	95,000	8.89	.321	Strong	1452

*TCR at 25-105°C

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Note: Available in bare or [Insulated](#)