

Technical Data Nickel and Nickel Alloys¹⁾

		Nickel	Nickel-Iron Alloy	Nickel-Copper Alloy	Copper-Nickel Alloys	
		Ni99,6	NiFe47	NiCu30Fe	CuNi23Mn	CuNi44
Material - No.	DIN / EN	2.4060	2.4478	2.4360	2.0881	2.0842
	UNS	N02205	N14052	N04400	-	C72150
Nominal Composition	[%]	≥ 99,6 Ni	50 Ni Rest Fe	63 Ni 30 Cu Fe 2 u.a.	23 Ni Mn 1,5 Rest Cu	44 Ni Rest Cu
Conductivity²	[m/(Ohm mm ²)]	11,1	2,9	2	3,3	2
Conductivity²	[% IACS]	19	5	3,5	5,7	3,5
Thermal Conductivity²	[W/(mK)]	71	17	26	33	23
Coefficient of Thermal Expansion³	[10 ⁻⁶ /K]	14	10	16	16	14
Tensile Strength² annealed	[N/mm ²]	400	570	500	350	420
Elongation² annealed	[%]	30	25	30	20	25
Tensile Strength² hard	[N/mm ²]	650	-	800	500	600
Density	[g/cm ³]	8,9	8,2	8,8	8,9	8,9

1) Nominal data for diameter 0,8 mm

2) At 20° C

3) Temperature range 20 - 200° C