7 Buccleuch Avenue,
Craighall Park,
Johannesburg, 2196,
South Africa

NOCKERS
ENGINEERING PRODUCTS

+ 27 11 447 8562
sales@nockers.co.za
www.nockers.co.za

SPECIFICATIONS FOR STANDARD NON-FERROUS WIRES

Material	Specification	Resistivity at 20°C µΩ.m	Temperature Coefficient of Resistance 20 – 100°C K^{-1}	Density kg/m^3	Tensile Strength MPa	Elongation in Soft Condition
Phosphor Bronze						
CuSn1 (K3)		0.0303	0.0022	8.9	350 – 700	>30%
CuSn5 (K10)	CW451K / C51000 / PB102	0.1020	0.00079	8.9	375 – 950	>30%
CuSn6	CW452K / C51900 / PB103	0.1408	0.00084	8.9	400 – 1100	>30%
CuSn8	CW453K / C52100	0.141	0.00084		450 – 1200	>25%
Brass						
CuZn5		0.029	0.0035	8.8	350 - 600	>30%
CuZn10	CW501 / C22000 / CZ101	0.039	0.003	8.8	350 – 600	>30%
CuZn15	CW502 / C23000 / CZ102	0.048	0.0028	8.8	350 – 700	>30%
CuZn20	CW503 / C24000 / CZ103	0.053	0.0025	8.7	350 – 700	>30%
CuZn30	CW505 / C26000 / CZ106	0.060	0.002	8.5	350 – 800	>30%
CuZn37	CW508 / C27200 / CZ108	0.067	0.0015	8.4	350 – 800	>30%
Nickel Silver						
CuNi10Zn27	CW401J / C74500	0.20	0.0004	8.7	475 – 800	>25%
CuNi12Zn24	CW403J / C75700 / NS104	0.23	0.0004	8.7	475 – 850	>25%
CuNi18Zn20	CW409J / C76400 / NS106	0.32	0.0003	8.7	475 – 880	>25%
Copper						
ETP Cu 99.9% min	C101 / CW004A	0.32	0.00393	8.9	250 – 450	>30%
OF Cu 99.99% min	C103 / CW008A	0.32	0.00393	8.9	250 – 450	>30%
Copper Nickel Alloys						
CuNi1		0.0256	0.003	8.9	290 – 530	>25%
CuNi2		0.05	0.0013	8.9	300 – 500	>25%
CuNi6		0.10	0.0007	8.9	320 - 570	>25%
CuNi10		0.15	0.0004	8.9	350 – 650	>25%
CuNi15		0.21	0.00035	8.9	375 – 700	>25%
CuNi25		0.34	0.00024	8.9	450 – 850	>25%
CuNi44 (constantan)		0.49	0.00004	8.9	500 – 900	>25%
Pure Nickel & Alloys						
Ni 98% min	Ni 201	0.085	0.005	8.9	450 - 900	>25%
NiMn2		0.109	0.0045	8.81	450 – 900	>25%
80/20 NiCr		1.09	0.0001	8.4	600 - 900	>25%
Aluminium						
AlMg5	5019 / 5356	0.0526	0.004	2.64	250 – 420	>25%
AlMgSi1	6061	0.0333	0.004	2.64	250 – 420	>25%
99.7% Pure	1050A	0.0270	0.004	2.64	250 – 420	>25%