



CHANGZHOU DLX ALLOY CO., LTD.



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NICKEL CHROMIUM



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NICKEL-CHROMIUM

nichrome is an ideal material, it has good ductility,workability and weldability under high temperature and seismic strength.

Nickel-chromium alloy with high and stable resistance, corrosion resistance, surface oxidation resistance, excellent coil-forming ability.

Size dimension range: Wire:0.02-10mm Ribbons: 0.05*0.2-2.0*6.0mm Strip: 0.05*5.0-5.0*250mm Bar:10-50mm

NiCr series: Cr10Ni90, Cr20Ni80, Cr30Ni70, Cr15Ni60, Cr20Ni35, Cr20Ni30

Alloy Nomenclature Performance		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35	Cr20Ni30
Main Chemical composition	Ni	Rest	Rest	Rest	55.0-61.0	34.0-37.0	30.0-34.0
	Cr	10.0-13.0	20.0-23.0	28.0-31.0	15.0-18.0	18.0-21.0	18.0-21.0
	Fe	≤1.0	≤1.0	≤1.0	Rest	Rest	Rest
Max. continuous service temp. of element(°C)		1200	1200	1250	1150	1100	1100
Melting point °C		1400	1400	1380	1390	1390	1390
Resistivity at 20°C (μΩ·m)		0.76±0.05	1.09±0.05	1.18±0.05	1.12±0.05	1.00±0.05	1.04±0.05
Density(g/cm ³)		8.9	8.4	8.1	8.2	7.9	7.9
Thermal conductivity (KJ/m·h·°C)		60.3	60.3	45.2	45.2	43.8	43.8
Coefficient of lines expansion(α×10 ⁻⁶ /°C)		18	18	17	17	19	19
Melting point approx.(°C)		1400	1400	1380	1390	1390	1390
Elongation at rupture(%)		>20	>20	>20	>20	>20	>20
Micrographic structure		Austenite	Austenite	Austenite	Austenite	Austenite	Austenite
Magnetic properties		Nonmagnetic	Nonmagnetic	Nonmagnetic	Nonmagnetic	Weak magnetic	Weak magnetic

