

**Main characteristics of Nichrome electric heating wires**

Alloy Nomenclature		NiCr 80/20	NiCr 70/30	NiCr 60/15	NiCr 35/20	NiCr 30/20
Performance						
Main	Ni	Rest	Rest	55.0-61.0	34.0-37.0	30.0-34.0
Chemical	Cr	20.0-23.0	28.0-31.0	15.0-18.0	18.0-21.0	18.0-21.0
Composition	Fe	≤1.0	≤1.0	Rest	Rest	Rest
Max. continuous service temp. of element		1200	1250	1150	1100	1100
Resistivity at 20°C (μΩ·m)		1,09	1,18	1,12	1	1,04
Density (g/cm³)		8,4	8,1	8,2	7,9	7,9
Thermal conductivity(KJ/m·h·°C)		60,3	45,2	45,2	43,8	43,8
Coefficient of lines expansion(α×10 ⁻⁶ /°C)		18	17	17	19	19
Melting point (approx.)(°C)		1400	1380	1390	1390	1390
Elongation at rupture (%)		>20	>20	>20	>20	>20
Micrographic structure		austenite	austenite	austenite	austenite	austenite
Magnetic properties		nonmagnetic	nonmagnetic	Weak magnetic	Weak magnetic	Weak magnetic