



ELECTROVEK-STEEL

D N I P R O P E T R O V S K C I T Y , U K R A I N E

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NI80CR20 ALLOY PROPERTIES

ALLOY		Ni80Cr20
Material		2.4869
Description		Ni80Cr20
DIN		17470/17471
UNS		N06003
ASTM		---
AMS		5676
CHEMICAL COMPOSITION, (%)		
Nickel, (Ni)		rest
Chromium, (Cr)		19.0 – 21.0
Iron, (Fe)		Max 1.0
Carbon, (C)		Max 0.08
Manganese, (Mn)		Max 1.0
Silicon, (Si)		1.0-1.5
Copper, (Cu)		Max. 0.5
Aluminum, (Al)		Max. 0.2
Rare earth		0.01-0.04
Other		---
MECHANICAL PROPERTIES AT 20°C		
Repeat bending frequency (F/R)		> 7
Elongation at rupture (%)		> 20
PHISICAL PROPERTIES AT 20°C		
Density (g/cm ³)		8.4
Hardness (H.B.)		200-260
Tensile strength (N/mm ²)		637-784
Resistivity at 20 °C (μΩ·m)		1.09
Max. continuous service temperature of element(°C)		1200
Melting point (approx.)(°C)		1400
Magnetic properties		Non magnetic
WORKING CYCLE		
diameter 6,0mm and higher	at T=1100 °C	more than 4000 hours
diameter 3,0-6,0mm	at T=1050 °C	more than 2000 hours
diameter 1,5-3,0mm	at T=1050 °C	more than 2000 hours
diameter 0,4-1,5mm	at T=1050 °C	more than 1000 hours
MATERIAL DESCRIPTION:		
- high corrosion resistance in air, oxidizing medium, and vacuum;		

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