



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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NI30CR20 ALLOY PROPERTIES

ALLOY		Ni30Cr20
Material		1.4860
Description		Ni30Cr20
DIN		17470
UNS		---
ASTM		---
AMS		---
CHEMICAL COMPOSITION, (%)		
Chromium, (Cr)		19.0– 21.5
Aluminum, (Al)		Max 0.3
Carbon, (C)		Max. 0.06
Nickel, (Ni)		30.0 – 31.5
Manganese, (Mn)		Max 1.0
Silicon, (Si)		1.80 – 3.00
Copper, (Cu)		---
Titan, (Ti)		Max 0.6
Iron, (Fe)		Rest
Other		Zr, Max 0.3
MECHANICAL PROPERTIES AT 20°C		
Repeat bending frequency (F/R)		> 7
Elongation at rupture (%)		> 20
PHISICAL PROPERTIES AT 20°C		
Density (g/cm ³)		8.3
Hardness (H.B.)		200-260
Tensile strength (N/mm ²)		637-784
Resistivity at 20 °C (μΩ·m)		1.12
Max. continuous service temperature of element(°C)		1100
Melting point (approx.)(°C)		1390
Magnetic properties		Weak magnetic
WORKING CYCLE		
diameter 6,0mm and higher	at T=1100 °C	more than 3500 hours
diameter 3,0-6,0mm	at T=1050 °C	more than 1800 hours
diameter 1,5-3,0mm	at T=1050 °C	more than 1800 hours
diameter 0,4-1,5mm	at T=1050 °C	more than 900 hours
MATERIAL DESCRIPTION:		
- high corrosion resistance in air, oxidizing medium, and vacuum;		

