



# 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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## OCR23Al5 ALLOY PROPERTIES

ALLOY		OCr23Al5
Material		1.4767
Description		CrAl 20 5
DIN		17470
UNS		K 92400
ASTM		B 603 II B*
AMS		---
CHEMICAL COMPOSITION, (%)		
Chromium, (Cr)		21.0– 23.5
Aluminum, (Al)		4.6-5.8
Iron, (Fe)		Rest
Carbon, (C)		Max 0.05
Manganese, (Mn)		Max 0.7
Silicon, (Si)		Max 0.6
Copper, (Cu)		---
Nickel, (Ni)		Max 0.6
Titan, (Ti)		Max 0.6
Rare earth		---
Other		Zr, Max 0.3
MECHANICAL PROPERTIES AT 20°C		
Repeat bending frequency (F/R)		> 5
Elongation at rupture (%)		> 12
PHISICAL PROPERTIES AT 20°C		
Density (g/cm <sup>3</sup> )		7.1
Hardness (H.B.)		200-260
Tensile strength (N/mm <sup>2</sup> )		637-784
Resistivity at 20 °C (μΩ·m)		1.40
Max. continuous service temperature of element(°C)		1300
Melting point (approx.)(°C)		1500
Magnetic properties		Magnetic
WORKING CYCLE		
diameter 6,0mm and higher	at T=1200 °C	more than 3500 hours
diameter 3,0-6,0mm	at T=1150 °C	more than 1800 hours
diameter 1,5-3,0mm	at T=1100 °C	more than 1800 hours
Diameter 0,4-1,5mm	at T=1000 °C	more than 900 hours
MATERIAL DESCRIPTION:		
- high corrosion resistance in air, oxidizing medium, and vacuum;		

