



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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OCR15AL5 ALLOY PROPERTIES

ALLOY	OCr15Al5	
Material	1.4725	
Description	Cr15Al5	
DIN	17470	
UNS	K 92500	
ASTM	B 603-1	
AMS	---	
CHEMICAL COMPOSITION, (%)		
Chromium, (Cr)	14.5– 15.5	
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 (%)	> 16	
PHISICAL PROPERTIES AT 20°C		
Density (g/cm ³)	7.1	
Hardness (H.B.)	200-260	
Tensile strength (N/mm ²)	637-784	
Resistivity at 20 °C (μΩ·m)	1.30	
Max. continuous service temperature of element(°C)	850	
Melting point (approx.)(°C)	1400	
Magnetic properties	Magnetic	
WORKING CYCLE		
diameter 6,0mm and higher	at T=850 °C	more than 3500 hours
diameter 3,0-6,0mm	at T=800 °C	more than 1800 hours
diameter 1,5-3,0mm	at T=700 °C	more than 1800 hours
Diameter 0,4-1,5mm	at T=650 °C	more than 900 hours
MATERIAL DESCRIPTION:		
- high corrosion resistance in air, oxidizing medium, and vacuum;		

