



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

telephone/ fax:

+49 (0) 208 205-83-073 Mülheim, Germany

+7 (495)639-93-00 Moscow, Russia

+38 (056)790-91-90 Dnipro, Ukraine

www.evek.biz

OCR27AL7MO2 ALLOY PROPERTIES

ALLOY		OCr27Al7Mo2
Material		1.4765
Description		Cr27Al7Mo2
DIN		17470
UNS		K 92500
ASTM		B 603-1
AMS		---
CHEMICAL COMPOSITION, (%)		
Chromium, (Cr)		26.5– 27.8
Aluminum, (Al)		6.0-7.0
Iron, (Fe)		Rest
Carbon, (C)		Max 0.05
Manganese, (Mn)		Max 0.2
Silicon, (Si)		Max 0.6
Copper, (Cu)		---
Nickel, (Ni)		Max 0.5
Molybdenum, (Mo)		1.8-2.2
Rare earth		---
Other		Max 0.3
MECHANICAL PROPERTIES AT 20°C		
Repeat bending frequency (F/R)		> 5
Elongation at rupture (%)		> 10
PHISICAL PROPERTIES AT 20°C		
Density (g/cm ³)		7.1
Hardness (H.B.)		200-260
Tensile strength (N/mm ²)		686-784
Resistivity at 20 °C (μΩ·m)		1.53
Max. continuous service temperature of element(°C)		1400
Melting point (approx.)(°C)		1520
Magnetic properties		Magnetic
WORKING CYCLE		
diameter 6,0mm and higher	При T=1300 °C	more than 4500 hours
diameter 3,0-6,0mm	При T=1200 °C	more than 2500 hours
diameter 1,5-3,0mm	При T=1150 °C	more than 2500 hours
Diameter 0,4-1,5mm	При T=1150 °C	more than 1500 hours
MATERIAL DESCRIPTION:		
- high corrosion resistance in air, oxidizing medium, and vacuum;		

