CZL TILBURG BV
Oppervlaktetechnieken

PHYSICAL PROPERTIES OF HARD CHROME

-Typical results from **ANKOR 1127** electrolyte

Item	**Value**	**Unit**
Density	7,0	g/cm^3
Melting Point	1875	^oC
Boiling Point	2200	^oC
Molar Mass	52	g/mol
Electrochemical Potential	+1,3	Volt
Electrochemical Equivalent Cr (IV)	0,3234	g/Ah
Specific Heat	0,43493	J/(g K)
Melting Heat	13,3952	kJ/mol
Heat Conductivity	69,069	J/(m s K)
Magnetic Susceptibility	$2,6\ 10^{-6}$	cm^3/g
Linear, Thermic Expension Coefficient	$6,6\ 10^{-6}$	1/K
Elasticity Module	132,4 upto 156,9	Gpa
Tensile Strength	98 upto 390	Mpa
Adhesion on Steel	Over 1000	N/mm^2
Specific Electric Resistance	13 upto 60 10^{-6}	Ohm cm
Friction Coefficient (Dry) Hard Chrome on Steel	0,16	1
Friction Coefficient (Dry) HARd Chrome on Hard Chrome	0,12	1
Optical Reflection Characteristics	Upto 65	%
IMDS identification number	756617	
Typical chemical composition (according IMDS)	Chrome 99,185 Oxygen 0,775 Carbon 0,02 Sulphur 0,02	% % % %