

Metallic Protectives Plating Ltd

Hard chromium plating, vaqua blasting, cylindrical and centreless grinding
401 Broad Lane, Coventry, CV5 7AY Tel: 024 76466691 Fax: 024 76471856

Technical Data	Metallichrom
Hardness	850 – 1150 HV
Hardness after heat treatment	-
Attacked by:	Hydrochloric Acid Hydrofluoric Acid 10% Nitric Acid Calcium Chloride Sulphuric Acid Chromic Acid (Slow) Zinc Chloride
Wear Resistance	Excellent
Friction	Low friction coefficient
Anti Stick (easy clean)	Excellent
Paramagnetic (does not attract magnetic particles)	Excellent
Defects	Magnified by subsequent deposition
Tarnish Resistance	Excellent (assumes passivity)
Deposit Characteristics	Random crack pattern
Max. Practical deposit	Up to .025" Radial
Melting Point	1860°C
Specific Gravity	7.19
Purity Deposit	99%+
Impact	Will not take severe impact
Stripping of deposit	Relatively easy
Levelling	Poor
Throwing Power	Poor
Solderability	-

THE EFFECT OF HEAT DURING THE DEPOSITS LIFE

Working Temperature °C	Metallichrom
0	1000
200	950
300	800
350	780
450	750
500	600
700	250
800	200

N.B. Hard Chromium above 400°C Oxidises

WEAR AND ABRASION RESISTANCE

Tests using a CS10 Wheel with a 1000g load x 5000Hz gives good indication, low figures show greater wear resistance.

	Wt loss m/g per 1000Hz
HARD CHROMIUM	2.0
ELECTROLYTIC NICKEL	14.7
ELECTROLESS Ni AS PLATED	9.6
ELECTROLESS Ni 200°C H.T.	8.7
ELECTROLESS Ni 400°C H.T.	3.2