

# METAL COLOURS

## CONVENTIONAL ZINC COATINGS



Metal Colours operates the latest alkaline non-cyanide zinc plating technology. This provides outstanding metal distribution and covering power. The coating is capable of accepting the environmentally friendly clear blue trivalent chromium passivate as well as yellow and olive drab finishes. Metal Colours is also able to provide final oil seals, wax silicate finishes, as well as water based lacquers for enhanced protection.

### COATING PROPERTIES

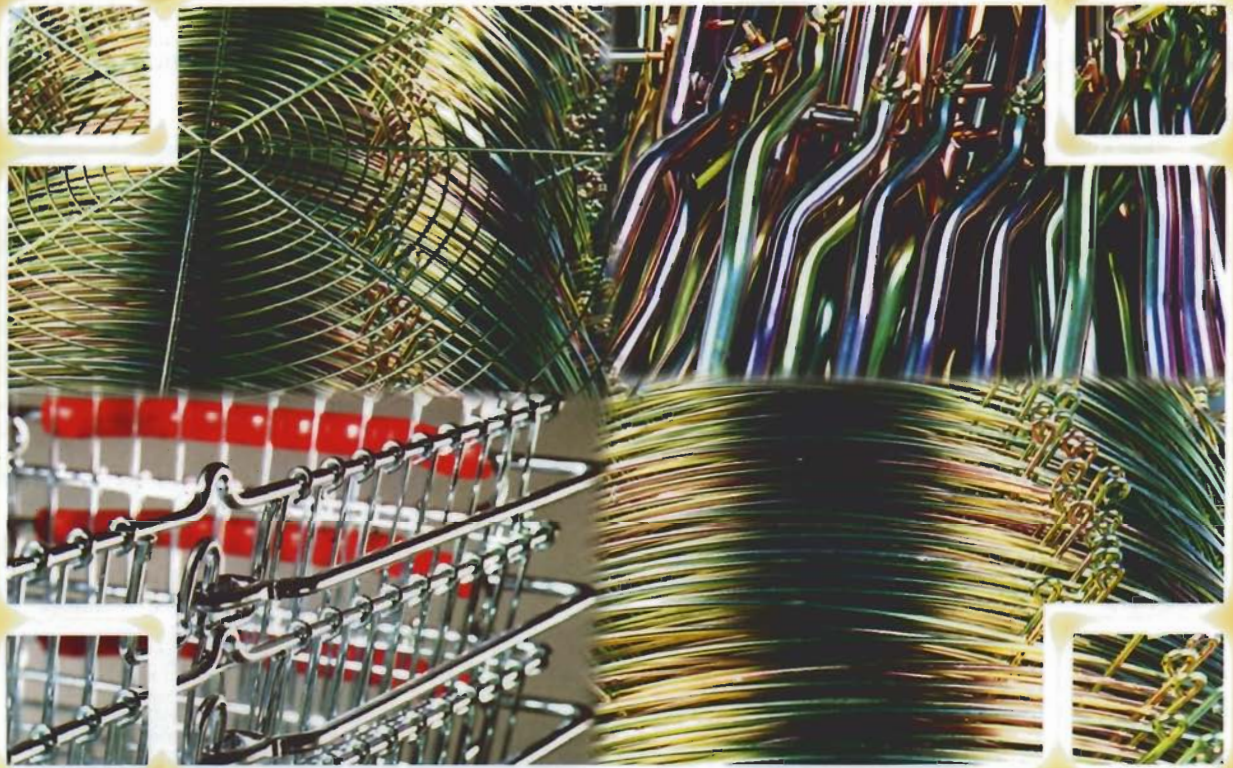
Physical properties	
Thickness	: 3 - 30 $\mu$ m according to client's specification
Hardness (100g HV)	: 80 - 150
Distribution	: 30% better than acid zinc deposits
Wear resistance	: good
Ductility	: good
Weldability	: not usual
Electrical conductivity	: moderate
EMI shielding	: moderate
Phosphate acceptability	: good
Paintability	: good

### CORROSION PROTECTION

	White-h	Red-h
Clear Passivate	20	100
Yellow Passivate	70	150 - 200
Olive Drab Passivate	150 - 200	250 - 360
Black Passivate	30 - 50	120 - 150

Above data relates to corrosion testing in accordance with ASTM B117 procedure, 5% neutral salt spray, deposit thickness 8 $\mu$ m. Silicate post dips and lacquers can add 100 - 250h to the above values.

Protection of steel substrates (red rust corrosion) is proportional to the deposit thickness.



## PRODUCTION FACILITIES

Metal Colours operates three large rack and two barrel plating plants, for the automated production of alkaline non - cyanide zinc plated components. All plants have fully automated transporter robots and a high degree of process control, including the automatic dosing of process chemicals and additives, as well as process temperature and direct current control.

Maximum Component Envelope size 3600mm x 1520mm x 710mm

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Cambridge Avenue, Trading Estate,  
Slough, Berkshire. SL1 4QG

Tel: (01753) 526644 Fax: (01753) 692454

email: [office@metalcolours.co.uk](mailto:office@metalcolours.co.uk)

Website: [www.metalcolours.co.uk](http://www.metalcolours.co.uk)

