

Ref MA7

METALLISATION – CHROME STEEL

General properties :

- *Good resistance to corrosion plus good rubbing properties and excellent resistance to wear.*
- *Accurate machining.*
- *Material recommended for reconstruction even where resistance to corrosion is not required.*
- *The best general use steel for working on routine mechanical parts.*

Applications :

- *Engine liners*
- *Fan shafts*
- *Plunger pump*
- *Pump shaft*
- *O-ring surfaces*
- *Valve surfaces*
- *Off-specification machining*
- *All types of load-bearing surfaces*

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PROPERTIES	
Name	Chrome steel
Symbol	Zn Al 85/15
Composition %	Cr : 12 to 14 C : 0.15 to 0.24 MA : 0.30 to 0.50
Bulk density	6.9
Average porosity %	7
Hardness	180 HB
Coefficient of expansion	13×10^{-6}
Maximum working temperature °C	400
Melting temperature °C	1420
Electrical resistivity 10 ⁻⁶ W cm	
Thermal conductivity Kcal dry -1° cm ² cm	

MACHINING BY TOOL	BLANK	FINISH
Type of tool	WCK 10	
Depth of travel mm	0.2	
Travel mm / lathe	0.2	
Lubricant	Soluble oil	
Cutting speed m/mn	15 to 20	
Ra µm	1.6	

ABRASIVE MACHINING	BLANK	FINISH
Abrasive	SIC39C	
Grain	46	
Grade	K	
Binding agent	Vitrified	
Depth of travel µm		
Travel m/mn		
Lubricant	Soluble oil	
Speed of part m/mn		
Wheel speed m/s		
Ra µm		

TREATMENTS AND IMPREGNATIONS

The information provided may be subject to variation depending on individual supplies and applications.
Therefore, any information detailed in this technical sheet is provided in good faith and for guidance only. We cannot be held liable.