

Material: DIN EN 12164 CuZn40Mn1Pb1AlFeSn (CW721R)

Standard Specification for Copper and Copper Alloy Rod for Free Machining Purpose

Group: Non Ferrous Copper Alloys

Sub Group: DIN EN 12164 CuZn40Mn1Pb1AlFeSn Copper and Copper Alloy Rod for Free Machining Purpose

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Rod

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.300 - 1.300	As Raw or Solution Heat Treated	
Iron	Fe %	0.200 - 1.200		
Manganese	Mn %	0.800 - 1.800		
Nickel	Ni %	0.300 max.		
Lead	Pb %	0.800 - 1.600		
Tin	Sn %	0.200 - 1.000		
Other	Ot %	0.300 max.		
Copper	Cu %	57.000 - 59.000		
Zinc	Zn %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	440 min.
-	-	-	Yield Strength in Mpa	200 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	120 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuZn40Mn1Pb1AlFeSn	BS	British	Rod
CW721R	BS	British	Rod
CuZn40Mn1Pb1AlFeSn	PN	Poland	Rod
CW721R	PN	Poland	Rod
CuZn40Mn1Pb1AlFeSn	SS	Sweden	Rod
CW721R	SS	Sweden	Rod
CW721R	DIN	Germany	Rod

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