

Material: SS 5163

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

Group: Non Ferrous Copper Alloys

Sub Group: SS 5163 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 %	0.050 max.	As Raw or Solution Heat Treated	
Iron	Fe %	0.200 max.		
Nickel	Ni %	0.300 max.		
Lead	Pb %	0.200 - 0.800		
Tin	Sn %	0.200 max.		
Other	Ot %	0.200 max.		
Copper	Cu %	59.000 - 60.500		
Zinc	Zn %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	350 - 470
-	-	-	Yield Strength in Mpa	200 - 390
-	-	-	Elongation in %	20 - 50
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	100 - 140
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 12164 CuZn39Pb0.5	DIN	Germany	Rod
C 2800 W	JIS	Japan	Rod
C 3710 R	JIS	Japan	Rod
C 3712 BD	JIS	Japan	Rod
C 3712 BE	JIS	Japan	Rod
C 3712 BF	JIS	Japan	Rod
C 4640 P	JIS	Japan	Rod

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