



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.		
Iron	Fe %	0.200 max.		
Nickel	Ni %	0.300 max.	As Raw or Solution Heat Treated	
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
-	-	-	Impac <mark>t in Joule</mark>	-

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	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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