

## Material - PN M059

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

Group - Non Ferrous Copper Alloys

Sub Group - PN M059 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 %	0.100 max.		
Iron	Fe %	0.400 max.		
Nickel	Ni %	0.300 max.	As Raw or Solution Heat Treated	
Lead	Pb %	1.500 - 2.500		leat Treated
Tin	Sn %	0.200 max.		
Other	Ot %	0.200 max.		
Copper	Cu %	58.500 - 60.000		
Zinc	Zn %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	360 min.
-	-	-	Yield Strength in Mpa	150 min.
-	-	-	Elongation in %	16 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	90 min.
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
EN 12164 CuZn39Pb2	DIN	Germany	Rod	
B 124 CW612N	ASTM	USA	Rod	
Ms58	DIN	Germany	Rod	
CZ 120	BS	British	Rod	
C37700	UNS	USA	Rod	
CuZn40	AFNOR NF	France	Rod	
CW509L	AFNOR NF	France	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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