



Material - ONORM CuPb1P

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

Group - Non Ferrous Copper Alloys

Sub Group - ONORM CuPb1P 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	
Phosphorus	P %	0.003 - 0.012	As Raw or Solution Heat Treated	
Lead	Pb %	0.700 - 1.500		
Other	Ot %	0.100 max.		
Copper	Cu %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	250 min.
			Yield Strength in Mpa	180 min.
			Elongation in %	5 min.
			Reduction of Area in %	-
			Hardness in BHN	80 - 130
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 12164 CuPb1P	DIN	Germany	Rod
CW113C	ONORM	Australia	Rod
2.116	DIN	Germany	Rod
CuPb1P	AFNOR NF	France	Rod
CW113C	AFNOR NF	France	Rod
CuPb1P	SFS	Finland	Rod
CW113C	SFS	Finland	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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