



## Material - DIN EN 12164 CuZn36Pb3 (CW603N)

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

**Group - Non Ferrous Copper Alloys**

**Sub Group - DIN EN 12164 CuZn36Pb3 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 %	0.300 max.		
Nickel	Ni %	0.300 max.		
Lead	Pb %	2.500 - 3.500		
Tin	Sn %	0.200 max.		
Other	Ot %	0.200 max.		
Copper	Cu %	60.000 - 62.000		
Zinc	Zn %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	340 min.
-	-	-	Yield Strength in Mpa	160 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	90 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
MO61	PN	Poland	Rod
CZ 124	BS	British	Rod
C 3601 BD	JIS	Japan	Rod
C 3601 W	JIS	Japan	Rod
C 3602 BD	JIS	Japan	Rod
C 3602 BE	JIS	Japan	Rod
C 3602 BF	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](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.