



## Material - NS CW456K

### Standard Specification for Copper-Tin Alloy Rod

Group - Non Ferrous Copper Alloys

Sub Group - NS CW456K Copper-Tin Alloy Rod

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Rod

Chemical Composition			Heat Treatment	
Iron	Fe %	0.100 max.	As Raw or Solution Heat Treated	
Nickel	Ni %	0.200 max.		
Phosphorus	P %	0.010 - 0.400		
Lead	Pb %	3.500 - 4.500		
Tin	Sn %	3.500 - 4.500		
Tellurium	Te %	0.200 max.		
Zinc	Zn %	3.500 - 4.500		
Other	Ot %	0.200 max.		
Copper	Cu %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	447 min.
-	-	-	Yield Strength in Mpa	350 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	115 - 210
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuSn4Pb4Zn4	DIN	Germany	Rod
C 5441 B	JIS	Japan	Rod, Bar and Wire
CuSn4Pb4Zn4	NBN	Belgium	Rod
CW456K	NBN	Belgium	Rod
CuSn4Pb4Zn4	AFNOR NF	France	Rod
CW456K	AFNOR NF	France	Rod
CuSn4Pb4Zn4	NS	Norway	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)**

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