



## Material - MSZ CW455K

### Standard Specification for Copper-Tin Alloy Rod

Group - Non Ferrous Copper Alloys

Sub Group - MSZ CW455K 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 %	0.200 - 0.400		
Lead	Pb %	1.500 - 2.500		
Tin	Sn %	3.500 - 4.500		
Zinc	Zn %	0.300 max.		
Other	Ot %	0.200 max.		
Copper	Cu %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	430 min.
-	-	-	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	125 - 155
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuSn4Pb2P	DIN	Germany	Rod
CuSn4Pb2P	EN	European Union	Rod
CW455K	EN	European Union	Rod
CuSn4Pb2P	ONORM	Australia	Rod
CW455K	ONORM	Australia	Rod
CuSn4Pb2P	MSZ	Hungary	Rod
CW455K	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](mailto:marketing@gravitycastindia.com)**

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