GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J 463 UNS C18400

Standard Specification for Wrough Copper and Copper Alloys

Group - Non-Ferrous Copper Alloys

Sub Group - SAE J 463 UNS C18400 Wrough Copper and Copper Alloys

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

Grade Belongs to the Industry - Sheet, Strip, Bar, Plate, Rod, Wire, Tube and Shapes

Chemical Composition		
Iron	Fe %	0.150 max.
Zinc	Zn %	0.700 max.
Silicon	Si %	0.100 max.
Phosphorus	P %	0.050 max.
Arsenic	As %	0.005 max.
Chromium	Cr %	0.400 - 1.200
Uranium	U %	0.050 max.
Cobalt	Co %	0.005 max.
Copper	Cu %	99.800 min.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Hardening

Mechanical Properties	
Tensile Strength in Mpa	380 min.
Yield Strength in Mpa	-
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in HRB	65 min.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
C18400	UNS	USA	Sheet, Strip, Bar, Plate, Rod, Wire, Tube and Shapes
12166 CW106C	EN	European Union	Rods
12166 CuCr1Zr	EN	European Union	Rods
12163 CW106C	EN	European Union	Rods
12163 CuCr1Zr	EN	European Union	Rods
12167 CW106C	EN	European Union	Bars
12167 CuCr1Zr	EN	European Union	Bars

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email 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.