



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - IS 291 Grade 2

Standard Specification for Naval Brass Rods and Sections for Machining Purposes

Group - Non-Ferrous Copper Alloy

Sub Group - IS 291 Naval Brass Rods and Sections for Machining Purposes

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

Grade Belongs to the Industry - Rod and Section

Chemical Composition			Heat Treatment	
Tin	Sn %	0.500 - 1.000	As Cast Annealing or Half Hardening or Hardening	
Lead	Pb %	0.500 - 1.000		
Iron	Fe %	0.100 max.		
Other	Ot%	0.200 max.		
Cu + Ni	Cu%+Ni%	59.000 - 62.000		
Zinc	Zn %	Balance		
-	-	-		
-	-	-		
-	-	-	<b>Mechanical Properties</b>	
-	-	-	Tensile Strength in Mpa	355 min.
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +91846916029, 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.

**ONE STOP SOLUTION FOR METAL PARTS**