



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SB-691 N08366

Standard Specification for Iron-Nickel-Chromium-Molybdenum Alloys Rod, Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-691 N08366 Iron-Nickel-Chromium-Molybdenum Alloys Rod, Bar and Wire

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

Grade Belongs to the Industry - Rod, Bar and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.035 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Chromium	Cr %	20.000 - 22.000		
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	6.000 - 7.000		
Phosphorus	P %	0.040 max.		
Nickel	Ni %	23.500 - 25.500		
Iron	Fe %	Balance		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	517 min.
-	-	-	Yield Strength in Mpa	206 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 688 N08366	ASTM	USA	Plate, Sheet and Strip
B 691 N08366	ASTM	USA	Rod, Bar and Wire
B 690 N08366	ASTM	USA	Pipe and Tube
SB-690 N08366	ASME	USA	Pipe and Tube
SB-688 N08366	ASME	USA	Plate, Sheet and Strip
-	-	-	-
-	-	-	-

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.

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