



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

## Material - ASTM A732 6N

**Standard Specification for Castings, Investment, Carbon and Low Alloy Steel for General Application, and Cobalt Alloy for High Strength at Elevated Temperatures**

**Group - Ferrous Mild Steel Alloys**

**Sub Group - ASTM A732 / A7323M Casting, Investment, Carbon and Low Alloy Steel for General Application**

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

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	0.350 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.200 - 0.800		
Manganese	Mn %	1.350 - 1.750		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.350 max.		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.250 - 0.550		
Copper	Cu %	0.500 max.		
Tungsten	W %	0.250 max.		
other	Ot %	1.000 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      621 min. Yield Strength in Mpa      414 min. Elongation in %      20 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
4020	AISI	USA	Forging, Bar, Wire, and Shape
1.8830	EN	European Union	Steel
1.8866	WN	Germany	Steel
C 450 LO	AS	Australia	Steel
P355Q	AFNOR NF	France	Steel
P 355 QH	UNI	Italy	Steel
C450AS	AS	Australia	Steel

**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)**

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**