



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

## Material - ASTM A732 1A

**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 %	0.150 - 0.250	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.200 - 1.000		
Manganese	Mn %	0.200 - 0.600		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.350 max.		
Nickel	Ni %	0.500 max.		
Mo + W	Mo% + W%	0.250 max.		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.250 max.		
other	Ot %	1.000 max.	Tensile Strength in Mpa	414 min.
Iron	Fe %	Balance	Yield Strength in Mpa	276 min.
-	-	-	Elongation in %	24 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1020	AISI	USA	Forging, Bar, Wire, and Shape
J02002	UNS	USA	Casting
1.0414	WN	Germany	Cold Rolling and Rod
1.1137	EN	European Union	Cold Rolling and Rod
A216 WCB	ASTM	USA	Casting
1.0619	WN	Germany	Casting
A352 LCA	ASTM	USA	Casting

**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**