



## Material - ASTM A732 15A

**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 %	0.950 - 1.100	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.200 - 0.800		
Manganese	Mn %	0.250 - 0.550		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	1.300 - 1.600		
Nickel	Ni %	0.500 max.		
Copper	Cu %	0.500 max.		
Tungsten	W %	0.100 max.		
Other	Ot %	0.600 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b>	
-	-	-	Tensile Strength in Mpa	-
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRB	100 Max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
52100	AISI	USA	Forging, Bar, Wire, and Shape
52100	SAE	USA	Bar, Wire, Sheet, Strip and Forging
52100	AMS	USA	Bar and Forging
J19166	UNS	USA	Casting
BL3	BS	British	Tool Steel
J19965	UNS	USA	Casting
K19964	UNS	USA	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)**

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