



## Material - ASTM A352 LCB

**Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts, Suitable for Low-Temperature Service**

**Group - Ferrous Mild Steel Alloys**

**Sub Group - ASTM A352 / A352M Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts, Suitable for Low-Temperature Service**

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

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment			
Carbon	C %	0.300 max.	Normalising + Tempering or Hardening + Tempering			
Silicon	Si %	0.600 max.				
Manganese	Mn %	1.000 max.				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.045 max.				
Chromium	Cr %	0.500 max.				
Nickel	Ni %	0.500 max.				
Molybdenum	Mo %	0.200 max.				
Copper	Cu %	0.300 max.				
Vanadium	V %	0.030 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 - 620		
-	-	-	Yield Strength in Mpa	240 min.		
-	-	-	Elongation in %	24 min.		
-	-	-	Reduction of Area in %	35 min.		
-	-	-	Hardness in BHN	-		
-	-	-	Impact in Joule	18 min. @ -46°C		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J03003	UNS	USA	Casting
SA 352 LCB	ASME	USA	Casting
1.1156	DIN	Germany	Casting
GC24E	EN	European Union	Casting
1.1156	EN	European Union	Casting
1.0619	EN	European Union	Casting
1.0619	DIN	Germany	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)**

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