

# Material: ASME SA-352 LCB

## Standard Specification for Castings for Valves, Flanges, Fittings and Other Pressure Containing Parts

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASME SA-352 LCB Castings for Valves, Flanges, Fittings and Other Pressure Containing Parts

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.300 max.
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
Molybdenum	Mo %	0.200 max.
Vanadium	V %	0.030 max.
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing + Tempering or Hardening + Tempering

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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
JO3003	UNS	USA	Casting
1.1156	DIN	Germany	Casting
1.1156	EN	USA	Casting
GC24E	EN	European Union	Casting
A352 LCB	ASTM	USA	Casting
1.0619	DIN	Germany	Casting
1.0619	EN	European Union	Casting

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