

## Material: ASTM A352 LC3

### 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 %	0.150 max.	Normalising + Tempering or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Nickel	Ni %	3.000 - 4.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	485 - 655
			Yield Strength in Mpa	275 min.
			Elongation in %	24 min.
			Reduction of Area in %	35 min.
			Hardness in BHN	-
			Impact in Joule	20 min. @ -101°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J31550	UNS	USA	Casting
SA 352 LC3	ASME	USA	Casting
1.5638	DIN	Germany	Casting
1.5638	EN	European Union	Casting
503-490	BS	British	Forging
AM8Ni14	UNE	Spain	Casting
G12Ni14	UNI	Italy	Casting

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