

Material: UNS J91151

Standard Specification for Low Alloy Steel Casting

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS J91151 Low Alloy Steel Casting

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.	Annealing or Hardening + Tempering	
Silicon	Si %	0.650 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	11.500 - 14.000		
Nickel	Ni %	1.000 max.		
Molybdenum	Mo %	0.150 - 1.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 min.
-	-	-	Yield Strength in Mpa	450 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	30 min.
-	-	-	Hardness in HB	241 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-487 Grade CA 15MA	ASME	USA	Casting
SA-487 Grade CA 15M	ASME	USA	Casting
410	SAE	USA	Bar, Wire, Shapes and Forging
A 487 CA 15M	ASTM	USA	Casting
A217 CA 15	ASTM	USA	Casting
A487 CA 15	ASTM	USA	Casting
A743 CA 15M	ASTM	USA	Casting

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