

Material: UNS J22091

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J22091 Alloy Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.200 max.
Silicon	Si %	0.800 max.
Manganese	Mn %	0.500 - 0.900
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	2.000 - 2.750
Vanadium	V %	0.030 max.
Molybdenum	Mo %	0.900 - 1.100
Copper	Cu %	0.500 max.
Tungsten	W %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	585 - 760
Yield Strength in Mpa	380 min.
Elongation in %	20 min.
Reduction of Area in %	35 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-487 Class 8N	ASME	USA	Casting
SA-487 Grade 8A	ASME	USA	Casting
SA-487 Grade 8B	ASME	USA	Casting
SA-487 Grade 8C	ASME	USA	Casting
A487 8A	ASTM	USA	Casting
A487 8B	ASTM	USA	Casting
A487 8C	ASTM	USA	Casting

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