

Material: UNS J12082

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J12082 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 %	0.200 max.	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 - 0.800		
Nickel	Ni %	0.700 - 1.100		
Molybdenum	Mo %	0.450 - 0.650		
Vanadium	V %	0.030 max.		
Tungsten	W %	0.100 max.		
			Mechanical Properties	
Copper	Cu %	0.500 max.	Tensile Strength in Mpa	484 - 655
Iron	Fe %	Balance	Yield Strength in Mpa	275 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
A487 11B	ASTM	USA	Casting
J12084	UNS	USA	Casting
1.8719	DIN	Germany	Steel
1.8920	EN	European Union	Steel
6386 Type 12	AMS	USA	Casting
K11576	UNS	USA	Casting
A487 11A	ASTM	USA	Casting

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