

Material: UNSJ12048

Standard Specification for Alloy Steel Casting

Group: *Ferrous Mild Steel Alloys*

SubGroup: *UNS J12048 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 - 0.250	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.200 - 8.000		
Manganese	Mn %	0.650 - 0.950		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.400 - 0.700		
Nickel	Ni %	0.400 - 0.700		
Molybdenum	Mo %	0.150 - 0.250	Mechanical Properties Tensile Strength in Mpa: 724 min. Yield Strength in Mpa: 586 min. Elongation in %: 10 min. Reduction of Area in %: - Hardness in BHN: - Impact in Joule: -	
Tungsten	W %	0.100 max.		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belongs to the Industry
8620.0000	AISI	USA	Forging, Bar, Wire, and Shape
8620	SAE	USA	Bar, Tube, Sheet, Strip and Forging
8620	AMS	USA	Bar and Forging
A73213Q	AISI	USA	Casting
J13047	UNS	USA	Casting
A4874A	ASTM	USA	Casting
A4874B	ASTM	USA	Casting

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