

Material: UNS J13051

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J13051 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 %	0.250 - 0.350	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.800		
Manganese	Mn %	0.650 - 0.950		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.400 - 0.700		
Nickel	Ni %	0.400 - 0.700		
Molybdenum	Mo %	0.150 - 0.250		
Tungsten	W %	0.100 max.	Mechanical Properties	
Copper	Cu %	0.500 max.	Tensile Strength in Mpa	1030 min.
Iron	Fe %	Balance	Yield Strength in Mpa	793 min.
-	-	-	Elongation in %	7 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
8630.0000	UNS	USA	Forging, Bar, Wire, and Shape
8630	SAE	USA	Bar, Tube, Sheet, Strip and Forging
8630	AMS	USA	Bar and Forging
A732 14Q	AISI	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com