



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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 Normalising 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.				
Copper	Cu %	0.500 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	1030 min.		
-	-	-	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
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS