



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - UNS J24054

Standard Specification for Alloy Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J24054 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 %	0.350 - 0.450	Annealing or Normalising or Hardening + Tempering			
Silicon	Si %	0.200 - 0.800				
Manganese	Mn %	0.700 - 1.000				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.045 max.				
Chromium	Cr %	0.700 - 0.900				
Nickel	Ni %	1.650 - 2.000				
Molybdenum	Mo %	0.200 - 0.300				
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	1241 min.		
-	-	-	Yield Strength in Mpa	1000 min.		
-	-	-	Elongation in %	5 min.		
-	-	-	Reduction of Area in %	5 min.		
-	-	-	Hardness in BHN	-		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AISI 4340	AISI	USA	Forging, Bar, Wire, and Shape
4340	SAE	USA	Bar, Tube, Sheet, Strip and Forging
4340	AMS	USA	Bar and Forging
A732 10Q	AISI	USA	Casting
J13080	UNS	USA	Casting
A487 13B	ASTM	USA	Casting
SA 487 13A	ASME	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