



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - UNS J15580

Standard Specification for Alloy Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J15580 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 %	0.550 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.800 - 1.100		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.400 max.		
Nickel	Ni %	1.400 - 1.750		
Molybdenum	Mo %	0.200 - 0.300		
Tungsten	W %	0.100 max.		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	825 - 1000
-	-	-	Yield Strength in Mpa	655 min.
-	-	-	Elongation in %	14 min.
-	-	-	Reduction of Area in %	30 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A487 14A	ASTM	USA	Casting
A487 13A	ASTM	USA	Casting
SA-487 13A	ASME	USA	Casting
SA-487 13B	ASME	USA	Casting
A732 1Q	ASTM	USA	Casting
J24054	UNS	USA	Casting
4340	AISI	USA	Forging , Bar, Wire and Shape

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.

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