



Material - UNS J13080

Standard Specification for Alloy Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J13080 Alloy Steel Casting

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Casting

C %	0.030 max.		Heat Treatment	
	0.050 Max.			
Si %	0.600 max.			
Mn %	0.800 - 1.100			
Р%	0.040 max.	Annealing or Normalising or Hardening + Tempering		
S %	0.035 max.			
Cr %	0.400 max.			
Ni %	1.400 - 1.750			
Mo %	0.200 - 0.300			
W %	0.100 max.	Mechanical Properties		
Cu %	0.500 max.	Tensile Strength in Mpa	620 - 795	
V %	0.030 max.	Yield Strength in Mpa	415 min.	
Fe %	Balance	Elongation in %	18 min.	
-	-	Reduction of Area in %	35 min.	
-	-	Hardness in BHN	-	
-	-	Impact in Joule	-	
	P % S % Cr % Ni % Mo % W % Cu % V % Fe % -	P % 0.040 max. S % 0.035 max. Cr % 0.400 max. Ni % 1.400 - 1.750 Mo % 0.200 - 0.300 W % 0.100 max. Cu % 0.500 max. V % 0.030 max. Fe % Balance	P % 0.040 max. S % 0.035 max. Cr % 0.400 max. Ni % 1.400 - 1.750 Mo % 0.200 - 0.300 W % 0.100 max. Cu % 0.500 max. V % 0.030 max. Yield Strength in Mpa Fe % Balance Elongation in % - - Hardness in BHN	

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

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