



Material - UNS J13005

Standard Specification for Alloy Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J13005 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 %	0.300 max.		
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.000 - 1.400		
Phosphorus	P %	0.035 max.	Annealing or Normalising or Hardening + Tempering	
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.350 max.		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.100 - 0.300		
Copper	Cu %	0.500 max.	Mechanical Properties	
Tungsten	W %	0.100 max.	Tensile Strength in Mpa	585 - 760
Iron	Fe %	Balance	Yield Strength in Mpa	365 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table					
Material	Standard	Country	Gr <mark>ade Belon</mark> g to the Industry		
1.0457	EN	European Union	Pipes Pipes		
1.0484	DIN	Germany	Pipes		
13030	CSN	Czech Republic	Steel		
20MB5	AFNOR NF	France	Cold Rolled, Strip		
230 - 450 W	JIS	Japan	Casting		
3	AS	Australia	Hot Rolled Bar		
A487 2A	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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