



Material - UNS S 32050

Standard Specification for Austenitic Chromium Nickel Molybdenum Nitrogen Stainless Steel

Group - Ferrous Stainless Steel Alloys

Sub Group - UNS S 32050 Austenitic Chromium Nickel Molybdenum Nitrogen Stainless Steel Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.	Solution Annealing	
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	20.000 - 23.000		
Molybdenum	Mo %	6.000 - 6.8000		
Copper	Cu %	0.400 max.	Mechanical Properties	
Nitrogen	N %	0.210 - 0.320	Tensile Strength in Mpa	570 min.
Iron	Fe %	Balance	Yield Strength in Mpa	280 min.
-	-	-	Elongation in %	35 min.
-	-		Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A240 S 32050	ASTM	USA	Plate, Sheet and Strip	
A358 S 32050	ASTM	USA	Pipes	
A959 S 32050	ASTM	USA	Plate, Sheet and Strip	
A249 S 32050	ASTM	USA	Tubes for Superheater and Heat exchanger	
A213 S 32050	ASTM	USA	Tubes for Superheater and Heat exchanger	
A743 CK35MN	ASTM	USA	Casting	
STS 350	KS	Korea	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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