



Material - ASTM A959 S 32050

Standard Specification for Specifying Harmonized Standard Grade Compositions for Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A 959 Specifying Harmonized Standard Grade Compositions for Stainless Steels

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Tubes for Superheater and Heat exchanger

Chemical Composition			Heat Treatment			
Carbon	C %	0.030 max.	Solution Annealing			
Silicon	Si %	1.000 max.				
Manganese	Mn %	1.500 max.				
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.				
Nitrogen	N %	0.210 - 0.320				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	570 min.		
-	-	-	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
A213 S 32050	ASTM	USA	Tubes for Superheater and Heat exchanger
A249 S 32050	ASTM	USA	Tubes for Superheater and Heat exchanger
S 32050	UNS	USA	Plate, Sheets and , Strip
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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