



Material - ASTM A249 S32050

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A249 S32050 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

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

Grade Belongs to the Industry - Tube

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 - 6.800																
Nitrogen	N %	0.210 - 0.320																
Copper	Cu %	0.400 max.																
Iron	Fe %	Balance	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>675 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>330 min.</td> </tr> <tr> <td>Elongation in %</td> <td>40 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HRC</td> <td>100 max.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	675 min.	Yield Strength in Mpa	330 min.	Elongation in %	40 min.	Reduction of Area in %	-	Hardness in HRC	100 max.	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32050	ASTM	USA	Steel, Plate, Sheet and Strip
A240 S32050	ASTM	USA	Plate, Sheet and Strip
A213 S32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges
A 959 S32050	ASTM	USA	Plate, Sheet and Strip
A358 S32050	ASTM	USA	Pipes
S32050	UNS	USA	Plate, Sheet and Strip
-	-	-	-

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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