

Material: UNS S32520

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: UNS 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: Steel and Tube

Chemical Composition			Heat Treatment															
Carbon	C %	0.030 max.	Solution Annealing															
Silicon	Si %	0.800 max.																
Manganese	Mn %	1.500 max.																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.020 max.																
Chromium	Cr %	24.000 - 26.000																
Nickel	Ni %	5.500 - 8.000																
Molybdenum	Mo %	3.000 - 4.000																
Nitrogen	N %	0.200 - 0.350																
Copper	Cu %	0.500 - 2.000																
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>770 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>550 min.</td> </tr> <tr> <td>Elongation in %</td> <td>25 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>310 max.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	770 min.	Yield Strength in Mpa	550 min.	Elongation in %	25 min.	Reduction of Area in %	-	Hardness in BHN	310 max.	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32520	ASTM	USA	Steel, Plate, Sheet and Strip
A789 S32520	ASTM	USA	Steel and Tube
A790 S32520	ASTM	USA	Steel and Pipe
A928 S32520	ASTM	USA	Steel and Pipe
A959 S32520	ASTM	USA	Steel
S32550	UNS	USA	Steel
A240 S32550	ASTM	USA	Steel, Sheet, Plate and Strip

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