

## Material: UNS S32654

### 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

Chemical Composition			Heat Treatment															
Carbon	C %	0.020 max.	Solution Annealing															
Silicon	Si %	0.500 max.																
Manganese	Mn %	2.000 - 4.000																
Phosphorus	P %	0.030 max.																
Sulphur	S %	0.005 max.																
Chromium	Cr %	24.000 - 25.000																
Nickel	Ni %	21.000 - 23.000																
Molybdenum	Mo %	0.450 - 0.550																
Copper	Cu %	0.300 - 0.600																
Nitrogen	N %	0.450 - 0.550																
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>750 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>430 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 BHN</td> <td>250 max.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	750 min.	Yield Strength in Mpa	430 min.	Elongation in %	40 min.	Reduction of Area in %	-	Hardness in BHN	250 max.	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32654	ASTM	USA	Steel, Plate, Sheet and Strip
A167 S32654	ASTM	USA	Steel, Sheet, Plate and Strip
A249 S32654	ASTM	USA	Steel and Tube
A269 S32654	ASTM	USA	Steel and Tube
A276 S32654	ASTM	USA	Steel, Bar and Shape
A312 S32654	ASTM	USA	Steel and Pipe
A959 S32654	ASTM	USA	Steel

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