



Material - SAE 316Ti

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 - SAE 316Ti 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 %	0.080 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	10.000 - 14.000	Mechanical Properties	
Titanium	Ti %	0.700 max.	Tensile Strength in Mpa	520 min.
Nitrogen	N %	0.100 max.	Yield Strength in Mpa	205 min.
Iron	Fe %	Balance	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	217 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31635	ASTM	USA	Steel, Plate, Sheet and Strip
316Ti	AS	Australia	Steel, Sheet, Plate and Strip
STS 316 Ti	KS	Korea	Steel, Sheet, Plate and Strip
SUS 316 Ti	JIS	Japan	Steel, Wire and Rod
A276 316 Ti	ASTM	USA	Steel, Bar and Shapes
A314 316 Ti	ASTM	USA	Steel, Bar, Rolling and Forging
A479 316 Ti	ASTM	USA	Steel and Bar

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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