



## Material - AS 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 - AS 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, Plate, Sheet and Strip**

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.
Copper	Cu %	0.350 max.	Yield Strength in Mpa	205 min.
Nitrogen	N %	0.100 max.	Elongation in %	40 min.
Iron	Fe %	Balance	Reduction of Area in %	-
-	-	-	Hardness in HB	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	SAE	USA	Steel
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](mailto:marketing@gravitycastindia.com)**

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