

Material: KS STS 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: KS STS 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		
Carbon	C %	0.080 max.
Silicon	Si %	1.000 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
Titanium	Ti %	0.700 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	520 min.
Yield Strength in Mpa	205 min.
Elongation in %	33.8 min.
Reduction of Area in %	50 min.
Hardness in HB	187 max.
Impact in Joule	49.8 - 188.8 J @ RT

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
316Ti	SAE	USA	Steel
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

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