

## Material: KS STS 316HTP

### 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 316HTP 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 Pipe

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.100	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	11.000 - 14.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	520 min.
-	-	-	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31609	ASTM	USA	Steel, Plate, Sheet and Strip
316H	SAE	USA	Steel
A182 F316H	ASTM	USA	Steel, Pipe and Forging
SUS F316H	JIS	Japan	Steel and Forging
316	AISI	USA	Steel, Sheet, Strip and Plate
316	SAE	USA	Steel, Bar, Wire, Shape and Forging
316	AMS	USA	Steel, Bar, Wire, Shape and Forging

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