

Material: EN 1.4950

Standard Specification for Steels for Pressure Purposes; Austenitic Steels

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4950 Steels for Pressure Purposes; Austenitic Steels

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Flat Products Made of Steels for Pressure Purposes

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.080	Annealing	
Silicon	Si %	0.700 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	12.000 - 15.000		
Nitrogen	N %	0.100 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	510 - 730
-	-	-	Yield Strength in Mpa	200 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	60 @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 Grade CH10	ASME	USA	Casting
J93401	UNS	USA	Casting
309S	AISI	USA	Casting
SUS 309 STB	JIS	Japan	Superheater, Tubes of Boiler and Heat Exchangers
X 6 CrNi 23-14	UNI	Italy	Plate, Sheets, Strip and Coil
A743 CH10	ASTM	USA	Casting
A351 CH10	ASTM	USA	Casting

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