

Material: ASME SA-312 S35045

Standard Specification for Seamless and Heavily Cold Worked Austenitic Stainless Steel Pipes

Group: Non-Ferrous Nickel Alloys

Sub Group: ASME SA-312 S35045 Seamless and Heavily Cold Worked Austenitic Stainless Steel Pipes

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

Grade Belongs to the Industry: Pipe

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 - 0.100	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Chromium	Cr %	25.000 - 29.000		
Sulphur	S %	0.015 max.		
Copper	Cu %	0.750 max.		
Aluminium	Al %	0.150 - 0.600		
Titanium	Ti %	0.150 - 0.600		
Nickel	Ni %	32.000 - 37.000		
			Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	485 min.
-	-	-	Yield Strength in Mpa	170 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Incoloy Alloy 803	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
A 312 S35045	ASTM	USA	Pipe
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