

This page is mainly introduced the SA-213 TP304LN Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SA-213 TP304LN, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel SA-213 TP304LN

	SA-213 TP304LN Standard Number:					
ITEM	Standard Number	Descriptions				
1 SA-213/SA-213M		Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes				

SA-213 TP304LN Chemical composition(mass fraction)(wt.%)										
	Chemical			Min.(%)			Max.(%)			
	С						0.03			
	Si						1.00			
	Mn						2.00			
	Р						0.045			
	S			0.03						
	Cr			18.0			20.0			
	Ni			8.00			12.0			
	N			0.10			0.16			
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Та
W	N	Cu	Co	Pb	В	Nb		Al	Ti	Other

Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

SA-213 TP304LN Physical Properties					
Tensile strength	115-234	σb/MPa			

Steel GradesSA-213 TP304LN Chemical information, Mechanical properties

Physical properties, Mechanical properties, Heat treatment, and Micro structure

Yield Strength	23	σ 0.2 ≥/MPa	
Elongation	65	δ5≥ (%)	
Ψ	-	ψ≥ (%)	
Akv	-	Akv≥/J	
HBS	123-321	-	
HRC	30	-	

SA-213 TP304LN Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			
Elongation	56	δ5≥(%)			
Ψ	-	ψ≥(%)			
Akv	-	Akv≥/J			
HBS	235-268	-			
HRC	30	-			

SA-213 TP304LN Heat Treatment Regime								
Annealing	Annealing Quenching Tempering Normalizing Q & T							
V	√	V	V	√				

SA-213 TP304LN Range of products							
Product type	Products	Dimension	Processes	Deliver Status			
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID- WASHED, Shot Blasting			
Steel Bar	Round Bar, Flat Bar, Square Bar	Ф8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,			
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot- Rolled	Annealed, Solution and Aging, Q+T, ACID- WASHED, Shot Blasting			
Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID- WASHED			

We can produce Specialsteel the specifications follows: