

This page is mainly introduced the SA-213 TP310S Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SA-213 TP310S, 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 TP310S

SA-213 TP310S 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 TP310S Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С							0.08		
Si							1.50		
Mn							2.00		
Р							0.045		
S							0.03		
Cr				24.00			26.00		
Ni				19.00			22.00		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

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

SA-21	3 TP310S Physical Prop	erties	
Tensile strength	115-234	σb/MPa	
Yield Strength	23	σ 0.2 ≥/MPa	

Steel GradesSA-213 TP310S Chemical information, Mechanical properties

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

Elongation	65	δ5≥ (%)
Ψ	-	ψ≥ (%)
Akv	-	Akv≥/J
HBS	123-321	-
HRC	30	-

SA-213 TP310S 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 TP310S Heat Treatment Regime					
Annealing Quenching Tempering Normalizing Q & T					
√	√	√	√	√	

SA-213 TP310S 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: