

This page is mainly introduced the SA-182 F 309H Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SA-182 F 309H, 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-182 F 309H

SA-182 F 309H Standard Number:					
ITEM	ITEM Standard Number Descriptions				
		Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service			

SA-182 F 309H Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С							0.08		
Si							0.75		
Mn							2.00		
Р							0.045		
S							0.030		
Cr				22.0			24.0		
Ni				12.0			15.0		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service

SA-182 F 309H Physical Properties					
Tensile strength	115-234	σb/MPa			
Yield Strength	23	σ 0.2 ≥/MPa			

## Steel GradesSA-182 F 309H 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-182 F 309H 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-182 F 309H Heat Treatment Regime						
Annealing	Quenching	Tempering	Normalizing	Q & T		
√	√	√	√	√		

SA-182 F 309H 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: