

This page is mainly introduced the SA-965 Grade F304N chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SA-965 Grade F304N, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## **Data Table for Grades Stainless Steels SA-965 Grade F304N**

SA-965 Grade F304N Standard Number:			
ITEM	Standard Number	Descriptions	
1	SA-965/SA-965M	Specification for Steel Forgings, Austenitic, for Pressure and High Temperature Parts	

SA-965 Grade F304N Chemical composition(mass fraction)(wt.%)			
Chemical	Min.(%)	Max.(%)	
С		0.08	
Si		0.75	
Mn		2.00	
P		0.045	
S		0.03	
Cr	18.0	20.0	
Ni	8.00	10.5	
N	0.10	0.16	

SA-965 Grade F304N Physical Properties			
Tensile strength	115-234	σb/MPa	
Yield Strength	23	σ 0.2 ≥/MPa	
Elongation	65	δ5≥ (%)	
Ψ	-	ψ≥ (%)	
Akv	-	Akv≥/J	
HBS	123-321	-	
HRC	30	-	

## SA-965 Grade F304N Mechanical Properties

## SA-965 Grade F304N Chemical information, Mechanical pro

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

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-965 Grade F304N Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
V	√	√	√	√

SA-965 Grade F304N 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 Stainless Steels the specifications follows: