

This page is mainly introduced the SA-965 Grade F304LN Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SA-965 Grade F304LN, 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-965 Grade F304LN

SA-965 Grade F304LN 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 F304LN 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	Ta	
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other	

Specification for Steel Forgings, Austenitic, for Pressure and High Temperature Parts

SA-965 Grade F304LN Physical Properties				
Tensile stre	ngth	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 F304LN 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-965 Grade F304LN Heat Treatment Regime						
Annealing	Quenching	Tempering	Normalizing	Q & T		
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		

SA-965 Grade F304LN 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: