

This page is mainly introduced the SA-814 S30940 chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SA-814 S30940, 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-814 S30940

SA-814 S30940 Standard Number:			
ITEM Standard Number		Descriptions	
1 SA-814/SA-814M Specification for Cold-Worked Welded Austenitic Stainless Steel Pi		Specification for Cold-Worked Welded Austenitic Stainless Steel Pipe	

SA-814 S30940 Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
C		0.08		
Mn		2.00		
Si		1.00		
Р		0.045		
S		0.03		
Cr	22.00	24.00		
Ni	12.00	15.00		
Мо				

SA-814 S30940 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-814 S30940 Mechanical Properties			
Tensile strength	231-231	σb/MPa	



SA-814 S30940 Chemical information, Mechanical propertie Physical properties, Mechanical properties, Heat treatment, and

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Yield Strength	154	σ 0.2 ≥/MPa
Elongation	56	δ5≥(%)
ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

SA-814 S30940 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

SA-814 S30940 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: