

This page is mainly introduced the SA-240 309HCb chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SA-240 309HCb, 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-240 309HCb

SA-240 309HCb Standard Number:			
ITEM	Standard Number	Descriptions	
1	SA-240/SA-240M	Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications	

SA-240 309HCb Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
С	0.04	0.10		
Si		0.75		
Mn		2.00		
Р		0.045		
S		0.03		
Cr	22.0	24.0		
Ni	12.0	16.0		
Nb		1.100		

SA-240 309HCb 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-240 309HCb Mechanical Properties				
Tensile strength	231-231	σb/MPa		



SA-240 309HCb Chemical information, Mechanical propertiPhysical properties, Mechanical properties, Heat treatment, and

Micro structure

Yield Strength	154	σ 0.2 ≥/MPa
Elongation	ion 56 δ5Ξ	
Ψ	- ψ≥	
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

SA-240 309HCb Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
	√	√	√	√

SA-240 309HCb 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	Φ8-1200mm*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: