

This page is mainly introduced the SA-193 Grade B8M2 Class 2B chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SA-193 Grade B8M2 Class 2B, 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-193 Grade B8M2 Class 2B

SA-193 Grade B8M2 Class 2B Standard Number:			
ITEM	Standard Number	Descriptions	
1	SA-193/SA-193M	Specification for Alloy Steel and Stainless Steel Bolting Materials for High- Temperature Service	

SA-193 Grade B8M2 Class 2B Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
С		0.13		
Si				
Mn				
Ni				
Cr		5.70		
Al		6.30		
Cu				
Ti				
Fe				
Мо		2.00		
Со				
Та		3.00		
Zr		0.60		
W		11.00		

SA-193 Grade B8M2 Class 2B Physical Properties			
Tensile strength	115-234	σb/MPa	
Yield Strength	23	σ 0.2 ≥/MPa	
Elongation	65	δ5≥ (%)	

## SA-193 Grade B8M2 Class 2B Chemical information, Mecha

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

Ψ	-	ψ≥ (%)
Akv	-	Akv≥/J
HBS	123-321	-
HRC	30	-

SA-193 Grade B8M2 Class 2B 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-193 Grade B8M2 Class 2B Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

SA-193 Grade B8M2 Class 2B 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: