

This page is mainly introduced the 4Cr10Si2Mo chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 4Cr10Si2Mo, 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 4Cr10Si2Mo

	4Cr10Si2Mo Standard Number:			
ITEM	Standard Number	Descriptions		
1	GB/T 1221 (1992)	Heat-resisting steel bars		
2	GB/T 12773 (1991)	Valve steel bars for internal combustion engines - Technical requirements		

4Cr10Si2Mo Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
С	0.35	0.45		
Si	1.90	2.60		
Mn		0.70		
Р		0.035		
S		0.60		
Cr	9.00	10.50		
Мо	0.70	0.90		

4Cr10Si2Mo 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	-	

4Cr10Si2Mo Mechanical Properties			
Tensile strengtl	า	231-231	σb/MPa



4Cr10Si2Mo Chemical information, Mechanical properties

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

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

4Cr10Si2Mo Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	V	√

4Cr10Si2Mo 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: