

This page is mainly introduced the 7Cr17 chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 7Cr17,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 7Cr17

7Cr17 Standard Number:				
ITEM	ITEM Standard Number Descriptions			
1	GB/T 1220 (1992)	Stainless steel bars		
2	GB/T 3280 (2007)	Cold rolled stainless steel sheets and plates		
3	GB/T 4237 (1992)	Hot rolled stainless steel sheets and plates		
4	GB/T 4239 (1991)	Cold rolled stainless steel and heat resisting steel strips		
5	5 GB/T 4356 (2002) Stainless steel wire rods			

7Cr17 Chemical composition(mass fraction)(wt.%)				
Chemical	Min.(%)	Max.(%)		
С	0.60	0.75		
Si		1.00		
Mn		1.00		
Ni		0.60		
Cr	16.00	18.00		
Мо		0.75		

7Cr17 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	-		

7Cr17 Mechanical Properties			
Tensile strength	231-231	σb/MPa	



7Cr17 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	-

7Cr17 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	V	V	V	V

7Cr17 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: