

This page is mainly introduced the Grade10 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Grade10, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Special Alloy Grade10

	Grade10 Standard Number:				
ITEM Standard Number Descriptions					

Grade10 Chemical composition(mass fraction)(wt.%)									
	Chemical			Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.3	0.8	0.60-1.00	0.04	0.045	0.55-0.90	1.40-2.00	0.20-0.40		
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

Grade10

Grade10 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	-			

Grad	Grade10 Mechanical Properties				
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			
Elongation	56	δ5≥(%)			



Steel GradesGrade10 Chemical information,Mechanical properties

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

Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

Grade10 Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
√	V	√	V	√			

Grade10 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 Special Alloy the specifications follows: