

This page is mainly introduced the P275N Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of P275N, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Structure Steel P275N

	P275N Standard Number:					
ITEM Standard Number Descriptions						

P275N Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.18	0.4	0.50-1.40	0.03	0.025	0.3	0.5	0.08		
W	N	Cu	Co	Pb	В	Nb	Al	Ti	Other

P275N

P275N 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	-			

P27	75N Mechanical Properti	es	
Tensile strength	231-231	σb/MPa	
Yield Strength	154	σ 0.2 ≥/MPa δ5≥(%)	
Elongation	56		



Steel GradesP275N Chemical information, Mechanical properties

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

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

P275N Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
√	√	√	√	√			

P275N 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 Structure Steel the specifications follows: