

This page is mainly introduced the P275NL1 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of P275NL1, 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 P275NL1

P275NL1 Standard Number:					
ITEM	ITEM Standard Number Descriptions				

P275NL1 Chem	nical composition(mass f	fraction)(wt.%)
Chemical	Min.(%)	Max.(%)

chemical			1(70)			110/11(70)			
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.16	0.4	0.50-1.50	0.03	0.02	0.3	0.5	0.08		
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

P275NL1

P275NL1 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	-			

P275NL1 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	-

P275NL1 Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
\checkmark	\checkmark	\checkmark	\checkmark				

P275NL1 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 Structure Steel the specifications follows: