

This page is mainly introduced the 5Cr21Mn9Ni4N Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 5Cr21Mn9Ni4N, 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 5Cr21Mn9Ni4N

5Cr21Mn9Ni4N Standard Number:					
ITEM	Standard Number	Descriptions			

5Cr21Mn9Ni4N Chemical composition(mass fraction)(wt.%)										
Chemical				Min.(%)			Max.(%)			
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Та
0.48-0.58	0.35	8.0-10.0	0.04	0.03	20.0-22.0	3.25-4.	5			
W	N	Cu	Co	Pb	В	Nb		Al	Ti	Other
	0.35-0.5	0.3								C+N≥0.90

This standard specifies the stainless steel rods order contents, classification, code, size, shape, weight and allowable deviation, technical requirements, test methods, inspection rules, packaging, logo and certificate of quality. This standard applies to the size is not more than 250 mm hot rolled and forged stainless steel rods. The supply and demand both sides talks things over, can also supply the size larger than 250 mm hot rolled and forged stainless steel rods.

5Cr21Mn9Ni4N 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	-			



## Steel Grades5Cr21Mn9Ni4N Chemical information, Mechanical properties

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

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5Cr21Mn9Ni4N 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	-				

5Cr21Mn9Ni4N Heat Treatment Regime							
Annealing	Quenching	Tempering	Normalizing	Q & T			
V	√	√	√	V			

5Cr21Mn9Ni4N 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: