

This page is mainly introduced the 22Cr21Ni12N Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 22Cr21Ni12N, 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 22Cr21Ni12N

	22Cı	r21Ni12N Standard Number:
ITEM	Standard Number	Descriptions

22Cr21Ni12N Chemical composition(mass fraction)(wt.%)										
Chemical Min.(%) Max.(%)										
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Та
0.15-0.28	0.75-1.25	1.0-1.6	0.04	0.03	20.0-22.0	10.5-12	.5			
W	N	Cu	Со	Pb	В	Nb		AI	Ti	Other
	0.15-0.3									

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.

22Cr21Ni12N 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	-
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22Cr2	22Cr21Ni12N 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	-	

22Cr21Ni12N Heat Treatment Regime					
Annealing	Quenching	Tempering	Normalizing	Q & T	
$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	

22Cr21Ni12N 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 Special Alloy the specifications follows: