

This page is mainly introduced the 1Cr18Mn8Ni5N Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 1Cr18Mn8Ni5N, 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 1Cr18Mn8Ni5N

1Cr18Mn8Ni5N Standard Number:					
ITEM	Standard Number	Descriptions			

1Cr18Mn8Ni5N Chemical composition(mass fraction)(wt.%)										
Chemical Min.(%) Max.(%)					Max.(%)					
С	Si	Mn	Р	S	Cr	Ni		Мо	V	Ta
Max 0.15	Max 1.00	7.50-10.0 0	max 0.060	Max 0.030	17.00-19. 00	4.00-6.0	00			
W	N	Cu	Со	Pb	В	Nb		Al	Ti	Other
	Max 0.2500									

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1Cr18Mn8Ni5N 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 Grades1Cr18Mn8Ni5N Chemical information, Mechanical properties

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

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1Cr18Mn8Ni5N 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	-				

1Cr18Mn8Ni5N Heat Treatment Regime							
Annealing	Quenching	Tempering	Normalizing	Q & T			
V	√	√	V	V			

1Cr18Mn8Ni5N 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: