

This page is mainly introduced the 12X18H10T Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 12X18H10T, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel 12X18H10T

12X18H10T Standard Number:						
ITEM	ITEM Standard Number Descriptions					

12X18H10T Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С							0.12		
Si							0.80		
Mn				2.00			2.00		
Р				0.035					
S							0.020		
Cr				17.00			19.00		
Ni				9.00			11.00		
Мо							0.50		
	W						0.20		
Ti				5×C			0.80		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
W	N	Cu	Co	Pb	В	Nb	AI	Ti	Other

Russia GOCT standard stainless steel and heat resistant steel steel grade and chemical composition

12X18H10T Physical Properties						
Tensile strength	115-234	ob/MPa				



Yield Strength	23	σ 0.2 ≥/MPa	
Elongation	65	δ5≥ (%)	
Ψ	-	ψ≥ (%)	
Akv	-	Akv≥/J	
HBS	123-321	-	
HRC	30	-	

12X18H10T Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			
Elongation	56	δ5≥(%)			
ψ	-	ψ≥(%)			
Ακν	-	Akv≥/J			
HBS	235-268	-			
HRC	30	-			

12X18H10T Heat Treatment Regime							
Annealing	Annealing Quenching Tempering Normalizing Q & T						
	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			

12X18H10T 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 Specialsteel the specifications follows: