

This page is mainly introduced the 12Cr17Mn6Ni5N chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 12Cr17Mn6Ni5N,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Data Table for Grades Special Alloy 12Cr17Mn6Ni5N

12Cr17Mn6Ni5N Standard Number:			
ITEM	Standard Number	Descriptions	

12Cr17Mn6Ni5N Chemical composition(mass fraction)(wt.%)

Chemical
chichhican

Min.(%)

Max.(%)

12Cr17Mn6Ni5N 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	-	

12Cr17Mn6Ni5N 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	-	

12Cr17Mn6Ni5N Heat Treatment Regime



12Cr17Mn6Ni5N Chemical information, Mechanical propert

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

Annealing	Quenching	Tempering	Normalizing	Q & T
	\checkmark	\checkmark	\checkmark	\checkmark

12Cr17Mn6Ni5N 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: