## You would find 12X18H10T technical datasheet

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12X18H10T chemical compostion, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. 12X18H10T product scope:

Round bars, sheet, plates, steel coils, steel pipes, forged flanges, pipe fittings and other materials application.

Grade :	12KH18N10T (12X18H10T) ( X18H10T )
Substitute:	08Х18Г8Н2Т, 10Х14Г14Н4Т, 12Х17Г9АН4, 08Х22Н6Т, 08Х17Т, 15Х25Т, 12Х18Н9Т

Chemical composition in % for grade 12KH18N10T (12X18H10T)										(18H10T)				
С		Si		Mn		Ni	S		P		Cr	Cu		-
max	0. 12	max	0.8	max	2	9 - 11	max	0. 02	max	0. 035	17 - 19	max	0. 3	(5 С — 0.8) Ті, остальное Fe

#### Mechanical properties under T=20°C for grade 12KH18N10T (12X18H10T) **Assortment** Dimension Direct. **KCU Heat treatment** $\delta_5$ σв $\sigma_{\text{T}}$ kJ/ **MPa MPa** % mm % m² Pipe cooling strain, GOST 9941-81 549 35 Pipe hot strain, GOST 9940-81 529 40 Guenching 1020 - 1100°C,Cooling Bar, GOST 5949-75 to Ø 60 510 196 40 55 air, 20-540-830 Wire, GOST 18143-72 25 35-40to 1000 510 196 Forging, GOST 25054-81 Guenching 1050 - 1100°C, water, 38 52 Guenching 1000 - 1080°C, Cooling Sheet trick, GOST 7350-77 530 235 38 water, Guenching 1050 - 1080°C, Cooling Sheet thin, GOST 5582-75 530 205 40 water, Sheet thin cold-worked, GOST 880-10 5582-75 1080 740 25 Sheet thin, GOST 5582-75

# Physical properties of grade 12X18H10T

Property	Density kg/dm3	Temperature T °C/F	Specific heat J / kgK	Thermal conductivity W/mK	Electric resistance μΩ·cm
285 (≥)	983 (≥)	21	11	31	Solution and Aging, Annealing, Ausaging, Q+T,etc
Temp. °C/°F	Creep strain limit (10000h) (Rp1,0) N/mm2	Creep rupture strength (10000h) (Rp1,0) N/mm2	-	-	-
343	728	853	-	-	-

## 12X18H10T products supply range

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	
Flanges	Forged flanges	1/2" -60"	Forged		
Pipe fittings	Elbow,Tee.Reducer,caps	1/2" -60"	Seamless/welded		