



# Jiangyou Hacer Technology Co., Ltd.

Steel Grade: ASTM T4 | UNS T12004 | Type: Tungsten Series

## CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤②	Cr(%)	Mo(%)	V(%)	W(%)	Co(%)
0.70~0.80	0.20~0.40	0.10~0.40	0.03	0.03	3.75~4.50	0.40~1.00	0.80~1.20	17.5~19.0	4.25~5.75

## HARDNESS AND HEAT TREATMENT

Hardness HBS			Preheating Temperature/ °C	Quenching/°C		Tempering/°C	Hardness ≥ HRC   After Tempering
Annealing	Cold Drawing	Annealing after Cold Drawing		Salt-Bath Furnace	Controlled Atmosphere Furnace		
269	285	277	816~871	1277	1288	552	63

Remark:

①,  $\omega(\text{Cu} + \text{Ni}) \leq 0.75\%$

②, The composition of S can be increased to  $\omega(\text{S}) 0.06\% \sim 0.15\%$  in order to improve the performance of

③, The standard is ASTM A600-1999.

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