



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: ASTM T15 | UNS T12015 | Type: Tungsten Series

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤ ^②	Cr(%)	Mo(%)	V(%)	W(%)	Co(%)
1.50~1.60	0.15~0.40	0.15~0.40	0.03	0.03	3.75~5.00	≤1.00	4.50~5.25	11.75~13.0	4.75~5.25

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		
277	293	285	16~871	1277	1288	538	65

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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