

Steel Grade: ASTM M42 | UNS T11342 | Type: Molybdenum Series

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤②	Cr(%)	Mo(%)	V(%)	W(%)	Co(%)
1.05~1.15	0.15~0.65	0.15~0.40	0.03	0.03	3.50~4.25	9.00~10.00	0.95~1.35	1.15~1.85	7.75~8.75

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	732~843	1177	1188	538	66

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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