

Steel Grade: ASTM M48 | UNS — | Type: Molybdenum Series

**CHEMICAL COMPOSITION**

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤②	Cr(%)	Mo(%)	V(%)	W(%)	Co(%)
1.42~1.52	0.15~0.40	0.15~0.40	0.03	0.07	3.50~4.00	4.75~5.50	2.75~3.25	9.50~10.5	8.00~10.0

**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		
311	331	321	732~843	1190	1202	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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