

Steel Grade: ASTM M2(Normal C%) | UNS T11302 | Type: Molybdenum Series

CHEMICAL COMPOSITION

| C(%) | Si(%) | Mn(%) | P(%) ≤ | S(%) ≤② | Cr(%) | Mo(%) | V(%) | W(%) | Co(%) |
|-----------|-----------|-----------|--------|---------|-----------|-----------|-----------|-----------|-------|
| 0.78~0.88 | 0.20~0.45 | 0.15~0.40 | 0.03 | 0.03 | 3.75~4.50 | 4.50~5.50 | 1.75~2.20 | 5.50~6.75 | — |

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 | | |
| 248 | 262 | 255 | 732~843 | 1216 | 1227 | 552 | 64 |

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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