Jiangyou Hacer Technology Co., Ltd.

| Steel Grade: ASTM D4 \| UNS T30404 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CHEMICAL COMPOSITION | | | | | | | | | |
| C(%) | Si(%) | Mn(%) | P(%)⩽ | S(%)② | Cr(%) | Mo(%) | V(%) | W(%) | Other① |
| 2.05～2.40 | 0.10～0.60 | 0.10～0.60 | 0.03 | 0.03 | 11.0～13.0 | 0.70～1.20 | 0.15～1.00 | — | — |
| HARDNESS AND HEAT TREATMENT | | | | | | | | | |
| Hardness HBS \| After Annealing | Hardness HBS \| After Cold Drawing | Preheating Temperature /℃ | Quenching/ ℃ \| Salt-bath Furnace | Quenching/℃ \| Atmosphere Furnace | Holding Time/min | Quenching Medium | Tempering/℃ | Hardness⩾HRC \| After Tempering | |
| 255 | 269 | 816 | 982 | 996 | 10～20 | Air Cooling | 204 | 62 | |



Remark:

①, Residual elements content: Ni + Cu⩽0.75%.

②, A,D,H series to improve machinability, sulfur content can be increased to ω(S)0.06%～0.15%.

③, Increase the H13 sulfur, the upper limit of manganese content can reach ω(Mn)1.00%.

④, It also have Al which is ω(Al)1.05%～1.25%.

⑤, P20 and P21 usually to pre hardened state supplies.

⑥, After tempering hardness L2 refers to the hardness of ω(C)0.45%～0.55%.

⑦, It standard is ASTM A681-1999.

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