



Steel Grade: ASTM L6   UNS T61206									
CHEMICAL COMPOSITION									
C(%)	Si(%)	Mn(%)	P(%) ≤	S(%)②	Cr(%)	Mo(%)	V(%)	W(%)	Other①
0.65~0.75	0.10~0.50	0.25~0.80	0.03	0.03	0.60~1.20	≤0.50	—	—	Ni1.25~2.00
HARDNESS AND HEAT TREATMENT									
Hardness HBS   After Annealing	Hardness HBS   After Cold Drawing	Preheating Temperature /°C	Quenching/°C   Salt-bath Furnace	Quenching/°C   Atmosphere Furnace	Holding Time/min	Quenching Medium	Tempering/°C	Hardness ≥ HRC   After Tempering	
235	262	649	816	829	5~15	Oil Cooling	204	58	

Remark:

- ①, Residual elements content: Ni + Cu ≤ 0.75%.
- ②, A,D,H series to improve machinability, sulfur content can be increased to  $\omega(S)$  0.06%~0.15%.
- ③, Increase the H13 sulfur, the upper limit of manganese content can reach  $\omega(Mn)$  1.00%.
- ④, It also have Al which is  $\omega(Al)$  1.05%~1.25%.
- ⑤, P20 and P21 usually to pre hardened state supplies.
- ⑥, After tempering hardness L2 refers to the hardness of  $\omega(C)$  0.45%~0.55%.
- ⑦, It standard is ASTM A681-1999.

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