



Steel Grade: ASTM L3   UNS T61203									
CHEMICAL COMPOSITION									
C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) <sup>②</sup>	Cr(%)	Mo(%)	V(%)	W(%)	Other <sup>①</sup>
0.95~1.10	0.10~0.50	0.25~0.80	0.03	0.03	1.30~1.70	—	0.10~0.30	—	—
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	
201	241	649	829	843	5~15	Oil 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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