



Steel Grade: ASTM O6   UNS T31506									
CHEMICAL COMPOSITION									
C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ②	Cr(%)	Mo(%)	V(%)	W(%)	Other ①
1.25~1.55	0.55~1.50	0.30~1.10	0.03	0.03	≤0.30	0.20~0.30	—	—	—
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	
229	241	-	788	802	5~15	Oil Cooling	204	59	

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.

From: Jiangyou Hacer Technology Co., Limited  
Factory Add: Jiangzhang Road, Jiangyou City, SC, China  
Website: <https://www.jhacer.com/>  
Email: [sales@jhacer.com](mailto:sales@jhacer.com)  
Phone: +86-(0)816-3260757  
Call: +86-13658128897(WhatsApp)