



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 18CrNi5-4 | Material No: 1.581

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.16~0.21	≤0.40	0.60~0.90	0.035	0.035	0.90~1.20	—	1.20~1.50	—

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Annealing/°C	Carburize/°C	Inside Quench/°C	Surface Quench/°C	Temper/°C	Annealing hardness HBS ≤
1150~850	610~650	880~980	840~880	780~820 Oil	150~200	223

INSIDE MECHANICAL PROPERTIES

Size/mm	Tensile Strength   $\sigma_b$ /MPa	Yield Strength   $\sigma_s \geq$ /MPa	Extensibility   $\delta 5(\%) \geq$	Reduction of Area   $\psi(\%) \geq$	Ballistic   akv/J
φ11	≥1200	—	—	—	—

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