



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 14CrNi18 | Material No: 1.586

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.10~0.17	0.15~0.35	0.40~0.70	0.035	0.035	0.90~1.30	—	4.25~4.75	—

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	850~900	830~860	780~800 Oil	170~200	245

INSIDE MECHANICAL PROPERTIES

Size/mm	Tensile Strength σ_b /MPa	Yield Strength $\sigma_s \geq$ /MPa	Extensibility $\delta_5(\%) \geq$	Reduction of Area $\psi(\%) \geq$	Ballistic akv/J
$\phi 11$	1270~1420	930	7	35	41

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