



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 18CrNi8 | Material No: 1.592

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.15~0.20	0.15~0.40	0.40~0.60	0.035	0.035	1.80~2.10	—	1.80~2.10	—

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Annealing/°C	Carburize/°C	Inside Quench/°C	Surface Quench/°C	Temper/°C	Annealing hardness HBS ≤
1150~850	650~700	900~950	840~870	800~830 Oil	170~210	235

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
φ11	1230~1470	835	7	30	41

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