



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 20CrNiMo2-2 | Material No: 1.6523

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.17~0.23	≤0.40	0.65~0.95	0.035	0.035	0.35~0.70	0.15~0.25	0.40~0.70	—

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	197

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	980~1270	785	9	35	41

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