



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 20CrMoS2(20CrMo2) | Material No: 1.7311

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.18~0.23	0.15~0.35	0.60~0.80	0.035	0.020~0.040	0.50~0.70	0.30~0.40	—	—

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	890~920	—	170~210	207

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	880~1180	635	9	35	41

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