



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 42Cr4 | Material No: 1.7045

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Other(%)
0.38~0.44	0.15~0.40	0.50~0.80	0.025	0.035	0.90~1.20	—	—

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Annealing/°C	Normalizing/°C	Quench/°C	Temper/°C	Surface Hardening/°C	Surface Hardness HRC
1050~850	680~720	840~880	820~850Water 830~860Oil	540~680	820~850	54~60

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/J①
≤16	980~1180	780	11	40	35

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