



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 46Si7 | Material No: 1.5024

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Other(%)
0.42~0.50	1.50~1.80	0.50~0.80	0.05	0.05	—	—	N 0.007

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Spring Thermal Forming/°C	Annealing/°C	Normalizing/°C	Quench/°C	Temper/°C	Annealing Hardness ≤HBS
1100~850	900~830	640~680	850~880	850~880 Water	430~500	230

MECHANICAL PROPERTIES

Flat Steel Size/mm	Round Steel Size/mm	Tensile Strength σ_b /MPa	Yield Strength $\sigma_s \geq$ /MPa	Extensibility $\delta_5 \geq$ (%)	Reduction of Area $\psi \geq$ (%)	Ballistic AKV① /J \geq
14	—	1270~1470	1080	6	30	21

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