



# Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 51Si7 | Material No: 1.5025

## CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Other(%)
0.47~0.55	1.50~1.80	0.50~0.80	0.045	0.045	—	—	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
1050~850	900~820	640~680	850~880	840~870 Water	350~550	245

## MECHANICAL PROPERTIES

Flat Steel Size/mm	Round Steel Size/mm	Tensile Strength   $\sigma_b$ /MPa	Yield Strength   $\sigma_s \geq$ /MPa	Extensibility   $\delta_5 \geq$ (%)	Reduction of Area   $\psi \geq$ (%)	Ballistic   AKV① /J $\geq$
17	24	1320~1570	1130	6	25	14

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