



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 51CrV4/50CrV4 | Material No: 1.8159

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Other(%)
0.47~0.55	≤0.40	0.70~1.10	0.035	0.035	0.90~1.20	—	V 0.10~0.25

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Spring Thermal Forming/°C	Annealing/°C	Normalizing/°C	Quench/°C	Temper/°C	Annealing Hardness ≤HBS
1050~850	920~830	640~680	850~880	830~860Oil	350~550	248

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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