



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 34CrAlMo5 | Material No: 1.8507

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Other(%)
0.30~0.37	≤0.40	0.50~0.80	0.025	0.03	1.00~1.30	0.15~0.25	Al 0.80~1.20

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Annealing/°C	Quench/°C	Temper/°C	Nitriding/°C	Annealing hardness HBS ≤
1050~850	650~700	900~950 Water	570~650	500~520	248

INSIDE MECHANICAL PROPERTIES

Size/mm	Tensile Strength   $\sigma_b$ /MPa	Yield Strength   $\sigma_s \geq$ /MPa	Extensibility   $\delta_5(\%) \geq$	Ballistic   akv/J①	carburized layer   HV
≤40	1000	600	14	40	950

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