

Steel Grade: 34CrAl5 | Material No: 1.8506
CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Other(%)
0.30~0.37	0.15~0.40	0.60~0.90	0.1	0.07~0.11	1.00~1.30	—	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	580~660	500~580	217

INSIDE MECHANICAL PROPERTIES

Size/mm	Tensile Strength σ_b /MPa	Yield Strength σ_s /MPa	Extensibility δ_5 (%) ≥	Ballistic akv/J①	carburized layer HV
≤ 40	930	440	12	—	900

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