



Jiangyou Hacer Technology Co., Ltd.

Steel Grade: 41CrAlMo7 | Material No: 1.8509

CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Other(%)
0.38~0.45	≤0.40	0.50~0.80	0.03	0.035	1.50~1.80	0.25~0.40	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	880~920 Oil	570~650	500~520	262

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	980	735	12	34	950

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