

Steel Grade: 15CrMoV5-9 | Material No: 1.8521
CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Other(%)
0.13~0.18	≤0.40	0.80~1.10	0.025	0.03	1.20~1.50	0.80~1.10	V 0.20~0.30

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Annealing/°C	Quench/°C	Temper/°C	Nitriding/°C	Annealing hardness HBS ≤
1050~850	680~740	940~980 Water or Oil	600~700	500~520	248

INSIDE MECHANICAL PROPERTIES

Size/mm	Tensile Strength σ_b /MPa	Yield Strength σ_s /MPa	Extensibility δ_5 (%) ≥	Ballistic akv/J①	carburized layer HV
≤100	1100	750	10	35	800

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