

Steel Grade: 31CrMoV9 | Material No: 1.8519
CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Other(%)
0.26~0.34	≤0.40	0.40~0.70	0.025	0.03	2.30~2.70	0.15~0.25	V 0.10~0.20

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Annealing/°C	Quench/°C	Temper/°C	Nitriding/°C	Annealing hardness HBS ≤
1050~850	680~720	840~880 Water or Oil	570~680	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
≤40	1230	1030	9	34	800

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