

Steel Grade: 46Cr1 | Material No: 1.7002
CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)
0.42 ~ 0.50	≤0.40	0.50 ~ 0.80	0.035	0.035	0.30 ~ 0.40	—	—

HARDNESS AND HEAT TREATMENT

Quench/°C Water	Quench/°C Oil	Temper/°C
—	830 ~ 860	500 ~ 670

MECHANICAL PROPERTIES

Softening Annealing/°C	Tensile Strength (≤100mm) σb/MPa ②③	Reduction of Area (≤100mm) ψ(%)③	Tensile Strength (≤60mm) σb/MPa②④	Reduction of Area(≤60mm) ψ(%)②④	Tensile Strength≥ σb/MPa⑥	Yield Strength ≥ σs/MPa⑥	Extensibility≥ δ5(%)⑥	Reduction of Area ≥ ψ(%)⑥	Ballistic≥ AKV/J① ⑥
680 ~ 710	650	56	630	58	780 ~ 980	630	12	45	48

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