

Steel Grade: 31CrMo12 | Material No: 1.8515
CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Other(%)
0.28~0.35	≤0.40	0.40~0.70	0.025	0.03	2.80~3.30	0.30~0.50	Ni ≤0.30

HARDNESS AND HEAT TREATMENT

Hot Working/°C	Annealing/°C	Quench/°C	Temper/°C	Nitriding/°C	Annealing hardness HBS ≤
1100~900	650~700	870~910 Oil	570~700	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
≤40	1130	835	10	48	800

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