

Steel Grade: Cq35(C35C) | Material No: 1.1172
CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)
0.32 ~ 0.39	≤0.40	0.50 ~ 0.80	0.035	0.035	—	—	—

HARDNESS AND HEAT TREATMENT

Quench/°C Water	Quench/°C Oil	Temper/°C
840 ~ 870	850 ~ 880	550 ~ 660

MECHANICAL PROPERTIES

Softening Annealing/°C	Tensile Strength (≤100mm) σ _b /MPa ②③	Reduction of Area (≤100mm) ψ(%) ②③	Tensile Strength (≤60mm) σ _b /MPa②④	Reduction of Area(≤60mm) ψ(%) ②④	Tensile Strength≥ σ _b /MPa⑥	Yield Strength ≥ σ _s /MPa⑥	Extensibility≥ δ ₅ (%)⑥	Reduction of Area ≥ ψ(%) ⑥	Ballistic≥ AKV/J ⑥
650 ~ 700	590①	58①	570	60	580 ~ 730	365	19	45	41

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