

**Steel Grade: Cq45(C45C) | Material No: 1.1192**
**CHEMICAL COMPOSITION**

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

**HARDNESS AND HEAT TREATMENT**

Quench/°C Water	Quench/°C Oil	Temper/°C
820 ~ 850	830 ~ 860	550 ~ 660

**MECHANICAL PROPERTIES**

Softening Annealing/°C	Tensile Strength (≤100mm) σb/MPa ②③	Reduction of Area (≤100mm) ψ(%) ③	Tensile Strength (≤60mm) σb/MPa ②④	Reduction of Area(≤60mm) ψ(%) ②④	Tensile Strength≥ σb/MPa ⑥	Yield Strength ≥ σs/MPa ⑥	Extensibility≥ δ5(%) ⑥	Reduction of Area ≥ ψ(%) ⑥	Ballistic≥ AKV/J ⑥
650 ~ 700	630①	56①	610	58	660 ~ 800	410	16	40	27

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