

Steel Grade: Cq22(C22C) | Material No: 1.1152
CHEMICAL COMPOSITION

C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)
0.18 ~ 0.24	≤0.40	0.30 ~ 0.60	0.035	0.035	—	—	—

HARDNESS AND HEAT TREATMENT

Quench/°C Water	Quench/°C Oil	Temper/°C
870 ~ 900	—	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
650 ~ 700	540①	62①	540	62	490 ~ 640	335	20	45	48

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