

| Steel Grade: 38Cr1 Material No: 1.7001 | | | | | | | | | |
|--|---|--------------------------------------|--|-------------------------------------|--|---|--|-------------------------------|-----------------------|
| CHEMICAL COMPOSITION | | | | | | | | | |
| C(%) | Si(%) | Mn(%) | P(%) | S(%) | Cr(%) | Mo(%) | Ni(%) | | |
| 0.34 ~ 0.41 | ≤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 | | |
| — | | | | 860 ~ 890 | | | 500 ~ 670 | | |
| MECHANICAL PROPERTIES | | | | | | | | | |
| Softening Annealing/°C | Tensile Strength (≤100mm) σ _b /MPa ②③ | Reduction of Area (≤100mm) ψ(%) ③ | Tensile Strength (≤60mm) σ _b /MPa ②④ | Reduction of Area(≤60mm) ψ(%) ②④ | Tensile Strength≥ σ _b /MPa ⑥ | Yield Strength ≥ σ _s /MPa ⑥ | Extensibility≥ δ ₅ (%) ⑥ | Reduction of Area ≥ ψ(%) ⑥ | Ballistic≥ AKV/J ⑥ |
| 680 ~ 700 | 610 | 58 | 590 | 60 | 7810 ~ 980 | 630 | 12 | 45 | 48 |

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