

| Steel Grade: 30Mn5 Material No: 1.1165 | | | | | | | | |
|--|------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------|-----------|--------------------------|----------|
| CHEMICAL COMPOSITION | | | | | | | | |
| C(%) | Si(%) | Mn(%) | P(%) | S(%) | Cr(%) | Mo(%) | Ni(%) | Other(%) |
| 0.27~0.34 | 0.15~0.40 | 1.20~1.50 | 0.035 | 0.035 | ≤0.30 | — | — | — |
| HARDNESS AND HEAT TREATMENT | | | | | | | | |
| Hot Working/°C | Annealing/°C | Normalizing/°C | Quench/°C | | | Temper/°C | Annealing hardness HBS ≤ | |
| 1100~850 | 650~700 | 850~880 | 820~850Water | 830~860Oil | | 480~650 | 217 | |
| MECHANICAL PROPERTIES | | | | | | | | |
| Size/mm | Tensile Strength σ_b /Mpa | Yield Strength $\sigma_s \geq$ /Mpa | Extensibility δ_5 (%) \geq | Reduction of Area ψ (%) \geq | Ballistic akv/J ^③ | | | |
| ≤16 | 780~930 | 540 | 14 | 45 | 41 | | | |
| 17~40 | 690~830 | 440 | 15 | 50 | 48 | | | |

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