

| Steel Grade: 20Mn5 Material No: 1.1133 | | | | | | | | |
|--|------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------|-----------|--------------------------|---------------|
| CHEMICAL COMPOSITION | | | | | | | | |
| C(%) | Si(%) | Mn(%) | P(%) | S(%) | Cr(%) | Mo(%) | Ni(%) | Other(%) |
| 0.17~0.23 | ≤0.60 | 1.00~1.50 | 0.035 | 0.03 | — | — | — | Al0.015~0.050 |
| 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 | 550~660 | — | | |
| 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 | 540~690 | 390 | 22 | 50 | 69 | | | |
| 17~40 | 490~640 | 345 | 20 | 55 | 69 | | | |

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