

| Steel Grade: 90Mn4 Material No: 1.1273 | | | | | | | | |
|--|------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------|-------|-------|----------|
| CHEMICAL COMPOSITION | | | | | | | | |
| C(%) | Si(%) | Mn(%) | P(%) | S(%) | Cr(%) | Mo(%) | Ni(%) | Other(%) |
| 0.85~0.95 | 0.25~0.50 | 0.90~1.10 | 0.035 | 0.035 | — | — | — | — |
| HARDNESS AND HEAT TREATMENT | | | | | | | | |
| Hot Working/°C | Annealing/°C | Normalizing/°C | Quench/°C | Temper/°C | Annealing hardness HBS ≤ | | | |
| 1100~850 | 640~680 | 860~890 | 790~860Oil | 480~650 | 350 | | | |
| 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/J③ | | | |
| ≤16 | ~1670 | 1375 | ~5 | — | — | | | |
| 17~40 | ~1670 | 1325 | ~5 | — | — | | | |

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