

| Steel Grade: P355NL1/TStE355 Material No: 1.0566 | | | | | | | | | | | | | | |
|--|---------------------------------------|---------------|---------------------------|--|--|-----------|------------|------------|------------|------------|------------|------------|-----------|-----------------|
| CHEMICAL COMPOSITION | | | | | | | | | | | | | | |
| C(%) ≤ | Si (%) | Mn (%)≤ | P (%)≤ | S (%)≤ | N (%)≤ | Al (%) | Cr (%)≤ | Cu (%)≤ | Mo (%)≤ | Ni (%)≤ | Nb (%)≤ | Ti (%)≤ | V (%) | Nb+Ti +V(%)⑥ |
| 0.18 | ≤0.50 | 0.90~1.70 | 0.03 | 0.02 | 0.02 | 0.02 | 0.30② | 0.30② | 0.08② | 0.50④ | 0.05 | 0.03 | 0.1 | 0.12 |
| MECHANICAL PROPERTIES | | | | | | | | | | | | | | |
| Tensile Strength σ_b /Mpa | | | | | Normal Temp Yield Strength σ /Mpa | | | | | | | | | |
| ≤70mm | 70-85mm | 85-100mm | 100-125mm | 125-150mm | ≤16mm | 16-35mm | 35-50mm | 50-60mm | 60-70mm | 70-85mm | 85-100mm | 100-125mm | 125-150mm | |
| 490~630 | 480~620 | 470~600 | 460~600 | 450~590 | 355 | 355 | 345 | 325 | 325 | 315 | 315 | 295 | 295 | |
| Extensibility $\delta_5 \geq$ (%) | Flexural Center Dia Cold-bend Test | | Sample Direction L/T⑧⑨ | Ballistic $ak_v \geq$ (J/cm ²) | | | | | | | | | | |
| | 180°C/L | 180°C/T ⑥⑦ | | +20°C | +10°C | +0°C | -10°C | -20°C | -30°C | -40°C | -50°C | -60°C | | |
| 22 | 2a | 3a | L/T | 63/39 | 59/35 | 55/31 | 51/31 | 47/27 | 39/24 | 31/20 | 27/16 | —/— | | |

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