

| Steel Grade: ESTE315(S315NL1) Material No: 1.1105 | | | | | | | | | | | | | | |
|---|---------------------------------------|---------------|---------------------------|--|--|-----------|------------|------------|------------|------------|------------|------------|-----------|-----------------|
| CHEMICAL COMPOSITION | | | | | | | | | | | | | | |
| C(%) ≤ | Si (%) | Mn (%)≤ | P (%)≤ | S (%)≤ | N (%)≤ | Al (%) | Cr (%)≤ | Cu (%)≤ | Mo (%)≤ | Ni (%)≤ | Nb (%)≤ | Ti (%)≤ | V (%) | Nb+Ti +V(%)⑥ |
| 0.16 | ≤0.45 | 0.70~1.50 | 0.025 | 0.015 | — | 0.02 | — | 0.2 | — | — | — | — | — | 0.05 |
| 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 | |
| 390~510 | 380~500 | 370~490 | 360~480 | 350~470 | 285 | 285 | 275 | 265 | 265 | 255 | 245 | 235 | 225 | |
| 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 | | |
| 24 | 1.5a | 2a | L/T | 100/80 | 95/75 | 90/70 | 80/60 | 65/45 | 50/35 | 40/30 | 30/27 | 25/20 | | |

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