

| Steel Grade: WStE255(P255)   Material No: 1.0462 |                                       |               |                           |  |  |           |            |            |            |            |            |            |           |                 |
|--|---------------------------------------|---------------|---------------------------|--|--|-----------|------------|------------|------------|------------|------------|------------|-----------|-----------------|
| CHEMICAL COMPOSITION                             |                                       |               |                           |  |  |           |            |            |            |            |            |            |           |                 |
| C(%)<br>≤  | Si<br>(%)                             | Mn<br>(%)≤    | P<br>(%)≤                 | S<br>(%)≤                                    | N<br>(%)≤                                  | Al<br>(%) | Cr<br>(%)≤ | Cu<br>(%)≤ | Mo<br>(%)≤ | Ni<br>(%)≤ | Nb<br>(%)≤ | Ti<br>(%)≤ | V<br>(%)  | Nb+Ti<br>+V(%)⑥ |
| 0.18   | ≤0.40                                 | 0.50~1.30     | 0.035                     | 0.03   | 0.02                                       | 0.02      | 0.30②      | 0.2        | 0.08②      | 0.3        | 0.3        | —          | —         | 0.05            |
| MECHANICAL PROPERTIES                            |                                       |               |                           |  |  |           |            |            |            |            |            |            |           |                 |
| Tensile Strength   $\sigma_b$ /Mpa               |                                       |               |                           |  | Normal Temp Yield Strength   $\sigma$ /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 |                 |
| 360~480  | 350~470                               | 340~460       | 330~450                   | 320~440                                      | 225  | 225       | 245        | 235        | 235        | 225        | 215        | 205        | 195       |                 |
| Extensibility   $\delta_5 \geq$<br>(%)           | Flexural Center Dia<br>Cold-bend Test |               | Sample Direction<br>L/T⑧⑨ | Ballistic   $ak_v \geq$ (J/cm <sup>2</sup> ) |  |           |            |            |            |            |            |            |           |                 |
|  | 180°C/L                               | 180°C/T<br>⑥⑦ |                           | +20°C  | +10°C                                      | +0°C      | -10°C      | -20°C      | -30°C      | -40°C      | -50°C      | -60°C      |           |                 |
| 25   | 1a                                    | 1a            | L/T                       | 55/31  | 51/31                                      | 47/31     | 43/24      | 39/21      | —/—        | —/—        | —/—        | —/—        | —/—       |                 |

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