



**Changzhou Giant Welding Co.,Ltd**  
www.giantweld.com

|                                      |  |           |       |   |             |           |       |        |
|--------------------------------------|--|-----------|-------|---|-------------|-----------|-------|--------|
| Standard :<br>AWS A5.22<br>E316LT1-1 | Chemical Composition    %  |           |       |   |             |           |       |        |
|                                      | C  | M<br>n    | Si    | Ni  | Cr          | Mo        | S     | P      |
| Grade<br>E316LT1-1                   | ≤ 0.04   | 0.5 ~ 2.5 | ≤ 1.0 | 11.0 ~ 14.0                                   | 17.0 ~ 20.0 | 2.0 ~ 3.0 | ≤0.03 | ≤ 0.04 |
| Type                                 | Spool (MIG)  |           |       |   |             |           |       |        |
| Specification<br>( MM )              | 0.8、 0.9、 1.0、 1.2、 1.6  |           | Pack  | S100/1kg    S200/5kg    S270,S300/12.5kg-20kg |             |           |       |        |
| Mechanical<br>Properties             | Rm / MPa   |           |       |   | A(%)        |           |       |        |
|                                      | ≥ 520  |           |       |   | ≥ 35        |           |       |        |
| MIG<br>Welding                       | (MM)   | 1.2       |       |   | 1.6         |           |       |        |
|                                      | Current - A  | 120 ~ 250 |       |   | 160 ~ 300   |           |       |        |
| Application                          | <ul style="list-style-type: none"><li>● <b>Welding of 316L Stainless Steels:</b> It is specifically designed for joining ultra-low carbon 316L (and similar grades like 316, CF-8M, and CF-3M) stainless steels. The molybdenum provides enhanced resistance to pitting and crevice corrosion, while the low carbon minimizes intergranular corrosion.</li><li>● <b>Fabrication in Corrosive Environments:</b> This wire is extensively used in industries such as chemical processing, pulp and paper, textile dyeing, and refinery equipment, where resistance to various corrosive media (including acids and chlorides) is critical.</li><li>● <b>Cryogenic Applications and Pressure Vessels:</b> Due to its excellent mechanical properties, including good impact toughness at low temperatures, it's also suitable for cryogenic applications (e.g., LNG tanks) and the fabrication of pressure vessels where high integrity welds are required.</li></ul> |           |       |   |             |           |       |        |

