



Changzhou Giant Welding Co.,Ltd
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|--|---|-----------|-------|---|-------------|-----------|--------|--------|
| Standard : AWS A5.22 E309LMoT1-1 | Chemical Composition % | | | | | | | |
| | C | M n | Si | Ni | Cr | Mo | S | P |
| Grade E309LMoT1-1 | ≤ 0.04 | 0.5 ~ 2.5 | ≤ 1.0 | 12.0 ~ 16.0 | 22.0 ~ 25.0 | 2.0 ~ 3.0 | ≤ 0.03 | ≤ 0.04 |
| Type | Spool (MIG) | | | | | | | |
| Specification (MM) | 0.8、 0.9、 1.0、 1.2、 1.6 | | Pack | S100/1kg S200/5kg S270,S300/12.5kg-20kg | | | | |
| Mechanical Properties | Rm / MPa | | | A(%) | | | | |
| | ≥ 520 | | | ≥ 35 | | | | |
| MIG Welding | (MM) | 1.2 | | | 1.6 | | | |
| | Current - A | 120 ~ 250 | | | 160 ~ 300 | | | |
| Application | <ul style="list-style-type: none">● Joining Dissimilar Metals: It is highly effective for welding stainless steels (especially molybdenum-containing austenitic stainless steels) to carbon steels or low alloy steels. This is a common application in many industrial settings.● Cladding and Overlay Applications: Used as a buffer layer when cladding mild steel with 316-type stainless steel, or for the first pass in multilayer overlays, to enhance corrosion resistance and creep strength.● Industrial Equipment and Components with Enhanced Corrosion and Creep Resistance: Commonly used in the fabrication and repair of equipment for pulp and paper mills, power plants, chemical processing, and refinery equipment, especially where improved resistance to pitting corrosion (due to molybdenum) and intergranular corrosion (due to low carbon) is required. | | | | | | | |

