MAG SOLID WIRE

E316L

Used for 316/316L austenitic stainless steel welding and dissimilar steel transition layer
Typical application scenarios:
- ✓ **Chemical reactor**
- ✓ **Offshore platform equipment**
- ✓ **Nuclear power plant auxiliary system**
- ✓ **Medical sterilization equipment**

Features:

- Corrosion resistance upgrade: 2.5-3.0% molybdenum content, PREN ⩾ 25 (pitting resistance increased by 50% compared with E309L)
- Ultra-low carbon: C ⩽ 0.03%, passed the ASTM G48 intergranular corrosion test
- Process-friendly: titanium-calcium slag system, slag removal rate ⩾ 92%

Chemical properties

Element	C	Cr	Ni	Mo	Mn	Si	Other
Content	≤0.03	18-22	12-14	2.0-3.0	1.0-2.5	0.3-0.7	N≤0.10

Material properties

Characteristics	Value/Description
Tensile strength	≥520 MPa
Yield strength	≥240 MPa
Elongation (gauge length 50mm)	≥35%
Impact toughness (-20℃)	≥100J @ -196℃
Deposition efficiency	93%~97%
Splash rate	≤2.5%