MAG SOLID WIRE

E309L

Specially used for welding dissimilar steels (such as carbon steel and stainless steel) and 309/309S stainless steel welding

Typical application scenarios:

- ✓ **Petrochemical pipeline transition section**
- ✓ **Boiler lining repair**
- ✓ **Heat exchanger tube sheet**

Features:

- High alloy transition: 23-25%Cr/12-14%Ni composition alleviates the dilution effect of carbon steel
- High temperature oxidation resistance: continuous working temperature can reach 980℃ (better than 304 series)
- Low carbon design: carbon content ⩽0.04%, avoiding intergranular corrosion

Chemical properties

Element	C	Cr	Ni	Mn	Si	P
Content	≤0.04	23-25	12-14	1.0-2.5	0.3-0.7	≤0.03

Material properties

Characteristics	Value/Description
Tensile strength	≥550 MPa
Yield strength	≥300 MPa
Elongation (gauge length 50mm)	≥30%
Impact toughness (-20℃)	≥80J @ 20℃
Deposition efficiency	92%-96%
Splash rate	≤3%