

JACKSUN NOVA-307

AUSTENITIC STAINLESS STEEL WELDING WIRE FOR
MIG/TIG WELDING

BASIC ALLOY: FE, CR, MN, NI
AWS/SFA-5.9: ER307 NR
EN ISO 14343-A 18 8 MN

KEY FEATURES:

The ER307 welding wire is a high-alloy austenitic stainless steel filler material primarily used for welding stainless steels of similar composition. It contains higher manganese (Mn) and chromium (Cr) compared to standard stainless steels, providing superior toughness and ductility. This electrode is especially suitable for applications requiring high resistance to corrosion, oxidation, and heat.

APPLICATIONS

- Suitable for joining and overlaying austenitic manganese steels
- Ideal for high-temperature and cryogenic applications
- Commonly used in petrochemical, food processing, and nuclear industries

SHEILDING GAS:

- welding with 100% Ar gas Or Ar+2%O₂ gas.

CHEMICAL COMPOSITION:

C	Mn	Si	S	P	Ni	Cr	Mo	Cu
0.04-0.014	6.00-8.00	1.00 max	0.03 Max	0.03 Max	9.00-11.00	18.5 - 21.5	1.5 max	0.5 Max

MECHANICAL PROPERTIES:

UTS (N/mm ²)	EL % (l=5d)
590 min	35 min

WELDING POSITION



DIEMENSION, CURRENT CONDITION & PACKING DATA (FOR MIG WELDING)

Size (mm)	Size (inch)	Current Condition (DC+)	Voltage (V)	Gas Flow Rate L/min	Spool packing 12.5 kg	Spool packing 15 kg	Drum packing 100/200kg
0.80	0.031	70-150	18-22	15-20	✓	✓	X
1.20	0.047	120-250	22-28	15-20	✓	✓	✓
1.60	1/16"	150-300	24-30	15-20	✓	✓	✓

DIEMENSION, CURRENT CONDITION & PACKING DATA (FOR TIG WELDING)

Size (mm)	Size (inch)	Length (mm)	Length (Inch)	Current Condition (DC+)	Voltage (V)	Tube packing 5 kg	Box packing 20 kg
1.60	1/16"	1000	36"	40-80	10-16	✓	✓
2.0	5/64"	1000	36"	50-100	12-18	✓	✓
2.4/ 2.5	3/32"	1000	36"	60-120	14-20	✓	✓
3.2	1/8"	1000	36"	100-150	16-24	✓	✓
4.0	5/32	1000	36"	140-200	18-28	✓	✓

Royale Weldwell also offers Ronox-307 Si Mig Welding wire