

GETIG 309L

IDENTIFICATION

Getig 309L, ER 309L

CLASSIFICATION

AWS A 5.9 ER309L

BS2901-90 309S92 DIN 8556-86 WSGX2CrNi 24.12

DESCRIPTION

Solid wire deposits a 24 % Cr / 13 % Ni austenitic stainless steel weld metal with a ferrite content about FN 12. The high alloy level and high ferrite content enables the weld metal to tolerate dilution from carbon and low alloy steels without hot cracking. Deposited weld metal is of radiographic quality.

CHEMICAL ANALYSIS (RANGE) %

C	Mn	Si	Cr	Cu	Ni	Mo	S	P
0.03 max	1.0 - 2.50	0.30 - 0.65	23.0 - 25.0	0.50 max	Dec-14	0.50 max	0.03 max	0.03 max

MECHANICAL PROPERTIES (RANGE)

TS (N/mm ²)	EL (%) (L=4D)	CVN Impact Value	
		Temp	Joules
540 - 650	35 - 45	0°C	50 - 100

TYPICAL APPLICATIONS

- Buffer layer on mild steel or low alloy steels.
- Joining of clad steels and dissimilar joints between stainless and mild or low alloy steels. Joining of ferrite-martensitic stainless steels.
- Welding of similar composition, 309 type stainless steel.
- Joining type 304 / 304L, 347, 321, 316 / 316L and duplex stainless steel to mild and low alloy steels.

SHIELDING GAS : Argon, 99.99%, 6-12 l/min

WELDING CURRENT : DC (-)

CORROSION RESISTANCE

Good resistance to general and intergranular corrosion. Also good resistance to oxidising acids and cold reducing acids.

PACKING PARAMETERS

Size (mm)	Length (mm)	Packing / Packet (kg)	Packing / Box (kg)

1.6	1000	5	5 x 4 = 20
2	1000	5	5 x 4 = 20
2.40 / 2.50	1000	5	5 x 4 = 20
3.15 / 3.20	1000	5	5 x 4 = 20
