

GETIG 312

IDENTIFICATION

Getig 312, ER 312

CLASSIFICATION

AWS/SFA 5.9 ER 312 BS2901-90 312S94

DIN 8556-86 WSGX10CrNi 30.9

DESCRIPTION

Getig 312 is a solid stainless steel wire which deposits a 29 % Cr / 9 % Ni austenitic / ferritic stainless steel weld metal with a ferrite content of about 40 FN. The weld metal exhibits excellent tolerance to dilution from dissimilar and difficult-to-weld base material without hot cracking, together with high strength and very good heat and oxidation resistance. Not recommended for depositing welds to be PWHT.

CHEMICAL ANALYSIS (RANGE) %

C	Mn	Si	Cr	Cu	Ni	Mo	S	P
0.15 max	1.0 - 2.50	0.30 - 0.65	28.0 - 32.0	0.50 max	8.0 - 10.5	0.75 max	0.030 max	0.030 max

MECHANICAL PROPERTIES (RANGE)

TS (N/mm ²)	EL (%) (L=4D)	CVN Impact Value	
		Temp	Joules
700 - 850	22 - 30	20°C	50 - 90

TYPICAL APPLICATIONS

- Medium and high carbon hardenable steels. For e.g. tool steels, shafts, gear teeth, free cutting steels.
- Dissimilar joints between stainless and high carbon steels. Buffer layer prior to hardfacing with chromium carbide deposits, surfacing of metal-to-metal wear areas, hot working tools.

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

WELDING CURRENT : DC (-)

CORROSION RESISTANCE

Good resistance to sulphurous gases at high temperature. Good resistance to wet corrosion upto approximately 300°C.

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
4	1000	5	5 x 4 = 20