ROYALFIL GS 317L (E317LT1-1)

AWS A / SFA 5.22 E 317LT1-1

Applications

It is used for welding alloys of similar composition i.e E317 / E317L SS grades. Also suitable for welding of E316 / E316L SS grades to get benefits of higher Molybdenum to improve pitting resistance. Finds applications in chemical plant, paint, pulp paper, textile Indistries, ship-building, nuclear plant & food processing.

Characteristics on Usage

Royalfil GS – 317L is an extra low carbon rutile coated all position stainless steel flux core welding wire with CO2 gas shielding. It gives the weld deposit of 19% Cr, 13% Ni & 3.5% Mo etc. It contains higher level of Molybdenum for increased corrosion resistance compared to E316LT1-1 grade in high chloride environments. It runs smoothly & gives uniform weld metal deposit with easily slag removal. The weld metal is highly resistance to Inter-Granular Corrosion & is of radiographic quality with easy slag removal and low spatters.

Welding Positions



Recommended Stick Out

15-20mm

OutShielding Gas

Carbon Dioxide (CO2) Shielding Gas Flow: 15-20 Lit / Min

Chemical Composition Of Weld Metal

C%	Mn%	Si%	S%	P%	Cr%
0.040 Max	0.50-2.50	1.0 Max	0.030 Max	0.040 Max	18-21
NI%	Mo%	Cu%			
12-14	3.0-4.0	0.75 max			

Mechanical Properties Of Weld Metal

U.T.S.	ELONGATION.
(N/mm²)	(L = 4d) %
520-620 Min	20-35 Min

Welding Parameters (DC + VE)

Diameter (mm)	Flat & Horizontal (A)	Flat & Horizontal (V)	Vertical - Up (V)	Vertical - Up (V)	Overhead (V)	Overhead (V)
1.20	160-210	26-30	120-160	22-26	150-180	26-30
1.60	190-250	26-30	160-200	22-27	180-210	26-30

Packing

15 kgs. Vaccum packed plastic spool

