ROYALFIL GS 90 D2 (E90T5-D2 C)

AWS A / SFA 5.29 E 90T5-D2 CEN ISO 18276 A T555MnMoBC3H5

Applications

Royalfil GS- 90 D2 is designed for welding of high strength, low alloy pressure vessels steel is such as A302 Gr. B, HSLA steels and Manganese- Molybdenum castings, such as ASTM A 49, A 291 and A 735 etc. to meet low temperature toughness as well as down to $-50\,^{\circ}$ C.

Characteristics on Usage

Royalfil GS-90 D2 is low alloy basic flux cored wire depositing 2.0 % Mn, 0.4 % Mo weld metal with CO2 shielding. The weld deposit is of radiographic quality with very low diffusible hydrogen and stable and smooth arc with good slag detachability. However, the weld metal from these Mn-Mo steel electrodes is quite air-hardenable and usually requires preheat and PWHT.

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%
0.15 Max	1.65-2.25	0.80 Max	0.030 Max	0.030 Max
Ni%				
0.25-0.55				

Mechanical Properties Of Weld Metal

U.T.S.	Y.S.	ELONGATION	MPACT(CVN)
(N/mm²)	(N/mm²)	(L = 4d) %	AT -20 °C (J)
620-760	540-610 Min	17-22 Min	27-50 Min

Welding Parameters (DC + VE)

Diameter (mm)	Flat & Horizontal (A)	Flat & Horizontal (V)
1.20 1.60	180-250 210-280	26-30 26-30
		20 00

Packing

15 kgs. Vaccum packed plastic spool

