ROYALFIL GS 90 D2 (E90T5-D2 C)

Applications

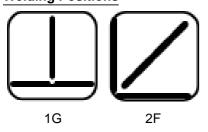
Royalfil GS- 90 D2 is designed for welding of high strength, low alloy pressure vessels steel is such as A302 Gr. B, HSLA steels and Manganese- Molybdenum castings, such as ASTM A 49, A 291 and A 735 etc. to meet low temperature toughness as well as down to -50 °C.

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

.



Chemical Composition Of Weld Metal

Element	C%	Mn%	Si%	S%	P%	Mo %
Typical Values	0.045	2.0	0.50	0.01	0.018	0.40
Spec. Reqd.	0.15 Max	1.65-2.25	0.80 Max	0.03 Max	0.03 Max	0.25-0.55

.....

Mechanical Properties Of Weld Metal

(After PWHT at 620 ± 15°C for 1 Hr)

U.T.S.	Y.S.	ELONGATION	IMPACT (CVN)
			AT – 50 ° C (J
(N/mm²)	(N/mm²)	(L = 4d) %)
700	610	22	50
620-760	540 Min	17 Min	27 Min
	(N/mm²) 700	(N/mm ²) (N/mm ²) 700 610	(N/mm²) (N/mm²) (L = 4d) % 700 610 22

Welding Parameters (DC + VE)

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

Packing

15 kgs. vacuum packed plastic spool.