ROYALFIL GS 18.8.5

Applications:

For joining Manganese steel to dis-similar steels like stainless steels, carbon steel, alloy steel, difficult to weld steels & high alloys like Armour plates. Very good for repairing cracks in austenitic manganese steel casting, for laying buffer before hardfacing, surfacing manganese steel rails etc.

Characteristics on Usage:

Royalfil GS 18.8.5 is a Gas shielded Stainless Steel flux cord wire for all position welding with CO2 shielding gas depositing radiographic quality weld metal with 18%Cr, 8%Ni, 5% Mn composition. Weld metal has excellent crack resistance, corrosion resistance, easily machinable & has excellent heat resisting properties up to 900°C

Welding Positions

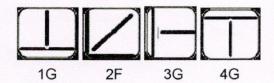
Recommended stick out

Shielding Gas

15-20 mm

Carbon Dioxide Co2 shielding

Gas flow: 15-20 Lit / Min



Chemical Composition Of Weld Metal:

Element	С	Mn	Si	S	P	Cr	Ni	Mo
Typical Values	0.040	6.00	0.50	0.010	0.025	18.5	8.5	0.050
Casa Dand	0.20	5.0 -	0.90	0.030	0.040	17.0 -	7.0 -	0.50
Spec. Reqd.	Max	8.0	Max	Max	Max	20.0	10.0	Max

Mechanical Properties Of Weld Metal:

Properties UTS (N/mm²)		Elongation (L=4d) %	
Typical Values	620	42	
Spec. Reqd.	560-670	40 min.	

WELDING PARAMETERS: (DC + VE)

Diameter in mm	Flat & Horizontal		Vertical-Up)	Overhead	
	Α	V	Α	V	Α	V
1.20	160-210	26-30	120-210	22-26	180-220	26-30
1.60	190-250	26-30	160-250	21-27	210-270	26-30

Packing

15 Kgs. Vacuum packed plastic spool