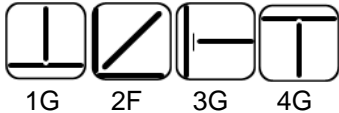


Applications

Royalfil-GS-16R fcw wire have been designed to produce weld metal with increase strength (without being air hardenable) & with increase notch toughness at low temperature. This Nickel steel weld metal can be used without PWHT. Often used in structural applications where excellent toughness is required. For e.g. Construction machineries, Structural bridges & storage tanks. Ideal for welding quenched & tempered steels of HY 80 type.

Characteristics on Usage

Royalfil GS-16 R is Rutile base gas shielded flux cored wire welding for all position welding with Co₂ shielding gas depositing radiographic quality metal. Arc is smooth & stable with low spatter and good bead appearance. Slag coverage is complete and easy removal.

Welding Positions**Recommended Stick Out**

15-20mm

Shielding Gas

Carbon Dioxide (CO₂) shielding
Gas Flow :20-25 Lit / Min

Chemical Composition Of Weld Metal

Element	C%	Mn%	Si%	S%	P%	Ni %	Mo %
Typical Values	0.045	1.40	0.55	0.007	0.017	1.00	0.28
Spec. Reqd.	0.12 Max	1.50 Max	0.80 Max	0.030 Max	0.030 Max	0.80 -1.10	0.35 Max

Mechanical Properties Of Weld Metal

Property	U.T.S.	Y.S.	ELONGATION	IMPACT (CVN)
	(N/mm ²)	(N/mm ²)	(L = 4d) %	AT - 30° C (J)
Typical Values	620	520	24	80
Spec. Reqd.	550-690	470 Min	19 Min	27 Min

Welding Parameters (DC + VE)

Diameter (mm)	Flat		Vertical - Up		Overhead	
	(A)	(V)	(A)	(V)	(A)	(V)
1.20	180-210	26-30	150-210	22-26	180-210	26-30
1.60	210-250	26-30	180-250	21-27	210-250	26-30

Packing

15 kgs. vacuum packed plastic spool.