AWS A / SFA 5.29 E81T1-W2 C

ROYALFIL GS 18 R (E81T1-W2 C)

Applications

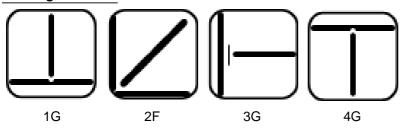
Royalfil-18R is designed for welding atmospheric corrosion resistant steel as Resco, corton & ITACOR. Suitable for joining weathering grade steels conforming to ASTM SA-588, SA-242 etc.

Characteristics on Usage

Royalfil GS-18R is Rutile base all position flux cored wire for welding of low alloy. This wire is having stable and smooth arc with good slag detachability & excellent bead appearance with CO2 shield. This wire is designed for welding CORTON grade weather resistance steels.

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Welding Positions



Chemical Composition Of Weld Metal

Element	C%	Mn%	Si%	S%	P%	Cr %	Ni '
Typical Values	0.05	0.97	0.45	0.01	0.018	0.62	0.6
Spec. Reqd.	0.12 Max	0.50 -1.30	0.35 -0.80	0.03 Max	0.03 Max	0.45- 0.70	0.40-

Mechanical Properties Of Weld Metal

Property	U.T.S.	Y.S.	ELONGATION	IMPACT (CVN	
	(N/mm²)	(N/mm²)	(L = 4d) %	AT - 30° C (J)	
Typical Values	600	510	25	50	
Spec. Reqd.	550-690	470 Min	19 Min	27 Min	

Welding Parameters (DC + VE)

Diameter	Flat & Horizontal	Flat & Horizontal	Vertical - Up	Vertical - Up	Overhead	Overhead
(mm)	(A)	(V)	(A)	(V)	(A)	(V)
1.20	180-250	26-30	120-210	22-26	150-200	26-30
1.60	210-280	26-30	160-250	22-27	190-240	26-30

Approvals

RDSO-IRS CLASS IV

Packing

15 kgs. Vacuum packed plastic spool.

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