

WELDING COST ESTIMATIONS PetroStreet



Dated: 8/16/2025

This module uses the method of calculating welding cost recommended by Welding Specialists. Values provided by form on certain inputs are taken from studies conducted by internationally acclaimed institutes.

Calculation No:

A101-F1-16

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oint Type: Groove						_		b	-		
oint Detail: V-Groove						_					
Weld Process: GTAW (root/hot)				hot) + :	SMAW (fill/cap)					/-	1
Welding Method: Manual						_					t
Γotal Weld Length:		<u>34</u>			ft			a	Y		
loint Thickness:		<u>·5</u>			in				г д		
Joint Dimensions											
Root Gap (g):	6		in	Root	Face Height (a):	.06	in	Groove An	gle (b):	37.5	deg
Groove Angle (ø):			deg	Root	Penetration (r):	.08	in	Radius (r1):	•		in
Cap Height (h): .c	8		in	Brand	h Thickness (tb)	: <u> </u>	in	Header Thi	ick (th):		in
Thickness (t1):			in								
Consumables:								r GTA	W ¬	∟SMA	w¬
Consumable Group: Carbon & Low All			Alloy S	teel	Consumable Spec:		ER70S-3		E7018		
Gas Consumption: 1		11.3			cu.ft/100A.h	Deposition E	fficiency	: 90	/	50	%
Operator Factor:	tor: <u>20</u>				%	Deposition Rate:		<u>.79</u>	/	2.76	lb/hr
Power Characteristi	cs:					Walding Val	+200.		,		V
Cost per KWh		0.15			USD	Welding Voltage: Welding Current:		200	/	20 140	v A
Cost Input:						Welding Col	TCTTC.	200		140	
Consumable Cost Bas	sis:					Consumable	e Cost:	8.16	1	7.3	USD/lb
Flux Cost:					USD/lb	Labor Cost:		65		75	 USD/hi
Gas Cost:		0.02			USD/cu.ft	Trade Name:					
Estimated Expenditu	ire										
Welding Consumables to be purchased:			: 1.2	8 lb / 47.01 lb			sumables	354 U			
Flux Required				t Applicable		st for Flux st for Gas		Not Applicable			
Gas Consumption Power Consumption			_	ı cu.ft		Cost for Power		4 USD 4 USD			
Arc time				_	.8 kWh	Cost for La					
Manhours (Time to weld)				_	hrs / 8.5 hrs hrs / 42.5 hrs		tal Cost		3325 USD 3687 USD		
Notes:				7.5	11137 42.51113						

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Calculation By: