

## SME 7018

## Carbon Steel Coated Electrode

## Carbon Steel

### Classifications:

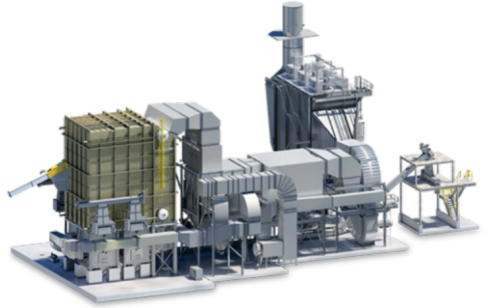
AWS A/SFA 5.1 : E7018

Identification : Brand Printed

### Characteristics:

SME 7018 is an all-position, low hydrogen electrode that provides impact toughness at low service temperatures.

These are formulated to have quality welds with easy slag removal or self-peeling. Good operating characteristic, also in root pass and positional welding.



### Applications:

1. Is used to join a wide variety of carbon and low alloy steels.
2. Suitable for welding high strength steel constructions, bridge, thermal power plants, Pressure vessels, tanks, pipe welding, shipbuilding and repair welding.

### Weld Metal Chemistry (wt%): ( AWS Specs | Weldmetal)

	C	Mn	Si	P	S	Ni	Cr	Mo	V	Oth
AWS	0.15	1.60	0.75	0.035	0.035	0.30	0.20	0.30	0.08	1.50
Weld	0.02	1.05	0.49	0.010	0.014	0.065	0.01	0.01	<0.01	-

### Mechanical Properties ( AWS Specs | Weldmetal):

	Yield Strength (Ksi)	Tensile Strength (Ksi)	Elongation (%)
AWS Specs	58	70	22 %
Weld Metal	67	79	28%

### Welding Parameters :

Size (Ø/Length) mm	2.5 x 350	3.2 x 350	4.0 x 350
Current (amps)	70 - 100	90 - 140	140 - 180

**Options Available : SME 7018-1 , SME 7018 A1 , SME 7018 H4R**