

ATOM ARC 7018 ACCLAIM AWS A5.1: E7018

FEATURES

This newest addition to the family offers the deep, penetrating arc and tough mechanical properties of the original Atom Arc 7018 with greater puddle control resulting in ease of use in out-of-position welding applications and superior arc initiation desired by many newer welders. Both novice and seasoned welders can appreciate its excellent weld performance, wide operating range and easy clean up. Greater puddle control resulting in easier out-of-position welds, superior arc initiation and ease of use with wider operating range and minimal clean-up

CLASSIFICATIONS AND APPROVALS

- D.N.V.- 3Y(H10)
- ASME SFA 5.1
- A.B.S.- 2Y / AWS A5.1: E7018
- AWS A5.1: E7018H4R
- Mil-E-22200/1 Mil-7018
- CERTIFIED BY C.W.B.- CSA W48
- L.R.- 3m,3Ym(H10)

WELDING PROCESS

- SMAW (Stick)

INDUSTRIES

- Civil Construction
- Mobile Machinery
- Shipbuilding
- Bridge Construction
- Rail Road Car
- Automotive
- General Fabrication

TYPICAL MECHANICAL PROPERTIES

Yield Strength	65 ksi, 450 MPa
Tensile Strength	79 ksi, 550 MPa
Elongation% in 2"	36%

CHARPY V-NOTCH PROPERTIES

Testing Temperature -20°F (29°C)
170 ft-lbs, 230 J

WELD METAL ANALYSIS

C	0.05%
Mn	1.20%
Si	0.45%
P	0.011%
S	0.008%

ATOM ARC 7018 ACCLAIM continued

DEPOSITION TABLE

Diameter in (mm)	Optimal Current Amps	Current Range Amps	Deposition Rate lb/hr (kg/hr)	Efficiency %
3/32 (2.4)	90	70 - 100	1.7 (0.8)	66.3
1/8 (3.2)	120	90 - 160	2.6 (1.2)	71.6
	140	90 - 160	2.7 (1.2)	70.9
5/32 (4.0)	140	130 - 220	3.1 (1.4)	75
	170	130 - 220	3.8 (1.7)	73.5
3/16 (4.8)	200	200 - 300	4.9 (2.2)	76.4
	250	200 - 300	5.4 (2.4)	74.6

PART NUMBER / PRODUCT INFORMATION

Part Number	Description	UPC
255012080	7018 Acclaim, 3/32 x 14 x 5# VALP	
255012049	7018 Acclaim, 3/32 x 14 x 10# HSC	
255012007	7018 Acclaim 3/32 x 14 x 50# HSC	662303084646
255012098	7018 Acclaim, 1/8 x 14 x 5# VALP	
255012056	7018 Acclaim 1/8x 14 x 10# HSC	
255012015	7018 Acclaim 1/8x 14 x 50# HSC	662303084134
255012106	7018 Acclaim, 5/32 x 14 x 5# VALP	
255012064	7018 Acclaim, 5/32 x 14 x 10# HSC	
255012023	7018 Acclaim 5/32 x 14 x 50# HSC	662303085209
255012072	7018 Acclaim, 3/16 x 14 x 10# HSC	
255012031	7018 Acclaim, 3/16 x 14 x 50# HSC	