

ALMIGWELD 1100

Alloy 1100 is highly resistant to chemical attack and weathering. It is a relatively soft alloy that is very form able and is used extensively in thin gauge and foil products. It has good welding characteristics and it is also used as a filler alloy for welding purposes. A desirable characteristic of the alloy is the bright finishes obtained by anodizing.

Specifications		
Classifications	AMS 4102 : (Chemistry Only) ANSI/AWS A5.10 : (ER & R)	
	ASTM B316 QQ-A-430	
Approvals	CWB	

Approvals are based on factory location. Please contact ESAB for more information.

Alloy Type Aluminum	
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Typical Tensile Properties				
Condition	Yield Strength	Tensile Strength	Elongation	
As Welded	34 MPa (5 ksi)	90 MPa (13 ksi)	35 %	
As Welded	103 MPa (15 ksi)	110 MPa (16 ksi)	2 %	
As Welded	117 MPa (17 ksi)	124 MPa (18 ksi)	9 %	
As Welded	138 MPa (20 ksi)	145 MPa (21 ksi)	6 %	
As Welded	152 MPa (22 ksi)	165 MPa (24 ksi)	5 %	

Typical Wire Composition %				
Cu	Si+Fe	Zn		
0.07	0.55	0.01		

Recommended Welding Parameters			
Current	Wire Diameter	Voltage	
125-150 A	0.8 mm (0.030 in.)	20-24 V	
100-130 A	0.8 mm (0.030 in.)	18-22 V	
85-120 A	0.9 mm (0.035 in.)	20-23 V	
125-150 A	0.9 mm (0.035 in.)	20-24 V	
170-190 A	0.9 mm (0.035 in.)	21-26 V	
140-260 A	1.2 mm (0.047 in.)	20-29 V	
180-210 A	1.2 mm (0.047 in.)	22-26 V	
125-150 A	1.2 mm (0.047 in.)	20-24 V	
170-240 A	1.2 mm (0.047 in.)	24-28 V	
140-300 A	1.2 mm (0.047 in.)	20-29 V	
190-350 A	1.6 mm (1/16 in.)	25-30 V	
240-300 A	1.6 mm (1/16 in.)	22-27 V	
190-260 A	1.6 mm (1/16 in.)	21-26 V	
280-320 A	1.6 mm (1/16 in.)	24-28 V	
260-310 A	1.6 mm (1/16 in.)	22-27 V	
290-340 A	1.6 mm (1/16 in.)	26-30 V	
280-360 A	2.4 mm (3/32 in.)	26-30 V	
300-400 A	2.4 mm (3/32 in.)	26-32 V	