

## **Shield-Bright 347**

Shield-Bright 347 was developed for the welding of stainless steel Types 321 and 347. As with all 347 weld metals, for service at temperatures greater than 1000°F (540°C) it can be used in circumstances of lower stress and not under creep conditions. Shield-Bright 347 can also be used for the welding of Types 302, 304 and sometimes 304L stainless steels. Shield-Bright 347 was developed for welding in all positions and performs particularly well in the vertical position with excellent slag removal.

Specifications		
Classifications	SFA/AWS A5.22 : E347T1-1	
	SFA/AWS A5.22 : E347T1-4	
	JIS Z 3323 : TS347-FB1	
	KS D 3612 : YF347C	
	EN ISO 17633-A: T 19 9 Nb P C1 2	
	EN ISO 17633-A: T 19 9 Nb P M21 2	
Approvals	DNV-GL: VL 347 (C1)	
	NAKS/HAKC: 1.2mm	

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

Welding Current	DC+
Alloy Type	C Cr Ni
Shielding Gas	M21, C1 (EN ISO 14175)

Typical Tensile Properties					
Condition	Yield Strength	Tensile Strength	Elongation		
100% CO2					
As Welded	433 MPa ( 63 ksi )	622 MPa ( 90 ksi )	47 %		
75% Ar - 25% CO2					
As Welded	520 MPa ( 75 ksi )	650 MPa ( 94 ksi )	35 %		

Typical Charpy V-Notch Properties				
Condition Testing Temperature Impact Value		Impact Value		
C1 Shielding Gas				
As Welded	-196 °C ( -321 °F )	29 J ( 21 ft-lb )		
As Welded	-29 °C ( -20 °F )	55 J ( 41 ft-lb )		

Typical Weld Metal Analysis %							
С	Mn	Si	s	Р	Ni	Cr	Cu
C1 Shielding Gas							
0.04	1.10	0.80	0.01	0.02	9.95	19.0	0.15

Deposition Data						
Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate		
1.2 mm	130-220 A	24-29 V	5.8-14.4 m/min	1.9-4.6 kg/h		
( .045 in. )			( 228-567 in./min )	( 4.2-10.1 lbs/h )		