



Exaton 347-17

347-17 is a niobium-stabilized chromium-nickel covered electrode with rutile coating for welding of steels of ASTM 321 and 347 types as well as overalloys. It is used in structural applications at max 400°C (752°F). When a weld metal similar to the parent metal is not required, 347-17 can be used for welding ferritic and martensitic steels. The electrode has excellent arc stability, low spatter and fast burn off rate with minimum stub loss. It is also characterised by improved moisture resistance, good slagdetachability, high resistance to porosity and easy post weld finishing. 347-17 gives smooth uniform beads and works in any standard weld position.

Specifications				
Classifications EN ISO 3581-A : E 19 9 Nb R 1 2				
	SFA/AWS A5.4 : E347-17			
	Werkstoffnummer : 1.4551			
Approvals	CE			
Approvals are based on factory location. Please contact ESAR for more information				

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Welding Current	DC+, AC
Ferrite Content	FN 6-9
Alloy Type	Austenitic CrNi
Coating Type	Acid Rutile

Typical Tensile Properties						
Condition Yield Strength Tensile Strength Elongation						
ISO						
As Welded	490 MPa (71 ksi)	620 MPa (90 ksi)	35 %			

Typical Charpy V-Notch Properties						
Condition	Testing Temperature	Impact Value				
ISO						
As Welded	-20 °C (-4 °F)	50 J (37 ft-lb)				
As Welded	20 °C (68 °F)	55 J (41 ft-lb)				
As Welded	-60 °C (-76 °F)	35 J (26 ft-lb)				

Typical Weld Metal Analysis %									
С	Mn	Si	S	Р	Ni	Cr	Мо	Cu	Nb
0.03	0.8	0.7	0.010	0.022	10	20	0.07	0.07	0.29

Typical Weld Metal Analysis %				
FN WRC-92	Nb+Ta			
7	0.29			

Deposition Data						
Diameter	Current	Voltage	Deposition Efficiency (%)	Burn-off Time /Electrode	Deposition Rate @ 90% I max	
2.5 x 300.0 mm (0.098 x 11.8 in.)	50-90 A	26 V	56 %	38 sec	1.0 kg/h (2.2 lbs/h)	
3.2 x 350.0 mm (1/8 x 13.8 in.)	70-130 A	28 V	56 %	53 sec	1.4 kg/h (3.1 lbs/h)	
4.0 x 350.0 mm (5/32 x 13.8 in.)	90-180 A	30 V	56 %	55 sec	2.0 kg/h (4.4 lbs/h)	
5.0 x 350.0 mm (0.197 x 13.8 in.)	140-250 A	31 V	56 %	60 sec	2.9 kg/h (6.4 lbs/h)	