

OK 61.85

Nb-stabilized basic coated electrode designed for welding of Nb- or Ti-stabilized stainless steels of the 19Cr10Ni-type. OK 61.85 provides the best hot cracking resistance of the products belonging to the 347 range. Due to the relatively high ferrite content level, the maximum working temperature should be limited to 400°C.

Specifications				
Classifications	EN ISO 3581-A : E 19 9 Nb B 2 2 SFA/AWS A5.4 : E347-15			
	Werkstoffnummer : 1.4551			
Approvals	VdTÜV: 05663			

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

Welding Current	DC+
Ferrite Content	FN 6-12
Alloy Type	Austenitic CrNi
Coating Type	Basic

Typical Tensile Properties					
Condition	Yield Strength	Tensile Strength	Elongation		
ISO					
As Welded	500 MPa	620 MPa	40 %		
Stress Relieved 16 hour(s) 600 °C	500 MPa	640 MPa	40 %		

Typical Charpy V-Notch Properties					
Condition	Testing Temperature	Impact Value			
ISO					
Stress Relieved	-60 °C	40 J			
As Welded	-60 °C	70 J			
As Welded	20 °C	100 J			
Stress Relieved	20 °C	80 J			

Typical Weld Metal Analysis %							
С	Mn	Si	Ni	Cr	N	Nb	FN WRC-92
0.04	1.7	0.4	10.2	19.5	0.07	0.61	8

Deposition Data						
Diameter	Current	Voltage	Efficiency (%)	Fusion time per electrode at 90% I max	Deposition Rate	
2.5 x 300.0 mm	55-80 A	25 V	60 %	42 sec	0.9 kg/h	
3.2 x 350.0 mm	75-110 A	23 V	62 %	64 sec	1.2 kg/h	
4.0 x 350.0 mm	80-150 A	24 V	61 %	70 sec	1.6 kg/h	
5.0 x 350.0 mm	150-200 A	23 V	61 %	76 sec	2.3 kg/h	