

Cryo-Shield Ni9

Flux cored wire for welding of 9% Ni steel. Cryo-Shield Ni9 is a gas shielded flux cored wire that can be used for welding in all positions using 100% CO2 shielding gas. This weld metal is a Nickel-based with excellent crack resistance and less sensitive to weld bead surface porosity.

Specifications				
Approvals	ABS : Manufacturer Guarantee			
	BV : Equivalent to N90			
	CCS: 9Ni			
	DNV-GL:- MS			
	KR:L91SG(C)			
	LR: 9Ni			

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

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

Tensile_Properties					
Testing Condition	Yield Strength	Tensile Strength	Elongation		
C1					
As Welded	440 MPa	730 MPa	44 %		

Charpy Testing						
Testing Condition Testing Temp Impact Value						
C1						
As Welded	-196 °C	65 J				

Typical Weld Metal Analysis %									
С	Mn	Si	S	Р	Ni	Cr	Мо	Cu	Ti
CO2 Shielding gas									
0.02	1.45	0.45	0.002	0.01	58.5	19.0	8.15	0.01	0.12

Typical Weld Metal Analysis %				
Fe	Nb+Ta			
CO2 Shielding gas				
9.0	3.00			

Deposition Data				
Diameter	Amps	Volts	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