

## Exaton 309/309L

309/309L is suitable for joining stainless Cr-Ni steels of the 309 type, Cr-steels and dissimilar steels e.g. austenitic stainless steel to carbon or low-alloyed steels for service up to 320°C (610°F). Widely used as barrier layer between carbon/low alloy steel and different stainless grades in cladding operations. It is used for Submerged Arc Welding.

### Specifications

#### Classifications

EN ISO 14343-A : S 23 12 L  
SFA/AWS A5.9 : ER309L

#### Approvals

CE : EN 13479

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

#### Alloy Type

Austenitic (with approx. 9 % ferrite) 24 % Cr - 13 % Ni - Low C

### Typical Tensile Properties

#### Condition

As Welded

#### Yield Strength

16 MPa ( 18 ksi )

### Typical Wire Composition %

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	Co
<0.02	1.8	0.4	<0.015	<0.02	13.5	23.5	<0.3	<0.2	<0.1

### Deposition Data

Length	Burn-off Time/Electrode	Deposition Rate @ 90% I max
2 mm ( 2 in. )	2 sec	2.1 kg/h ( 2 lbs/h )

### Recommended Welding Parameters

Current	Wire Diameter	TTW Dist.
80 A	1 mm ( 1 in. )	1 mm ( 1 in. )