

Exaton 25.10.4.L

Exaton 25.10.4.L is used for welding of Sandvik SAF 2507 and other super-duplex steels. The grade is characterized by excellent resistance to stress corrosion in chloride-bearing environments and excellent resistance to pitting and crevice corrosion.

Exaton 25.10.4.L can also be used for welding Sandvik SAF 2205 and corresponding duplex steels when the highest possible corrosion resistance is required. It can be used for plasma welding and overlay welding using hot wire TIG and mechanical TIG.

Classifications Wire Electrode	SFA/AWS A5.9 : ER2594 EN ISO 14343-A : G 25 9 4 N L
Approvals	ABS ER 2594 CE EN 13479 DNV-GL Duplex Steels

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

Alloy Type	Austenitic-ferritic (duplex) with approx. 50 FN ferrite - 25% Cr - 10% Ni - 4% Mo - Low C
Shielding Gas	M12 (EN ISO 14175)

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
As Welded	20 °C	210 J
As Welded	-40 °C	170 J
As Welded	-46 °C	150 J
As Welded	-50 °C	140 J

Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N
0.01	0.4	0.4	0.001	0.02	9.5	25	3.9	0.1	0.24

Typical Weld Metal Analysis %

Nb	W	PRE	FN WRC-92
0.01	0.01	41.7	52

Typical Wire Composition %

C	Mn	Si	S	P	Ni	Cr	Mo	V	Cu
0.012	0.4	0.3	0.0005	0.015	9.5	25	4	0.05	0.07

Typical Wire Composition %

N	Nb	Ti	Co	W	PRE	FN WRC-92
0.25	0.01	0.003	0.04	0.01	42	50

Recommended Welding Parameters

Wire Diameter	Current	Voltage	Wire Feed Speed
0.8 mm	40-120 A	15-19 V	4.0-8.0 m/min
1.0 mm	60-220 A	15-28 V	4.0-12.0 m/min
1.2 mm	150-260 A	24-29 V	3.0-10.0 m/min
1.6 mm	230-350 A	25-30 V	3.0-5.0 m/min

*For MIG welding of ferritic-austenitic stainless steels