

Shield-Bright 308L X-tra

FCAW wire for 18%Cr - 8%Ni stainless steel, For flat and horizontal position welding. Designed for welding types 301, 302, 304, 304L, 308, 308L steels. Ideal where service temperatures are below 500°F(260°C). Low carbon content helps minimize carbide precipitation. Carbon content 0.04% maximum.

Specifications

Classifications	SFA/AWS A5.22 : E308LT0-1 SFA/AWS A5.22 : E308LT0-4 JIS Z 3323 : TS308L-FB0 KS D 3612 : YF308LC EN ISO 17633-A : T 19 9 L R C1 3 EN ISO 17633-A : T 19 9 L R M21 3
Approvals	ABS : E308LT0-1 BV : 308L (M21) CE : EN 13479 CWB : E308LT0-1 (M21) CWB : E308LT0-4 (C1) DNV-GL : VL 308L (C1) KR : RW308LG(C) (C1) LR : 304L UKCA : EN 13479 VdTÜV : 06611

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

Welding Current	DC+
Alloy Type	C Cr Ni
Shielding Gas	M21, C1 (EN ISO 14175)

Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
M21 Shielding Gas			
As Welded	410 MPa	580 MPa	40 %
C1 shielding gas			
As Welded	409 MPa	549 MPa	55 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
M21 Shielding Gas		
As Welded	-29 °C	40 J
As Welded	-196 °C	24 J

Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Cr
M21 Shielding Gas						
0.022	1.40	0.90	0.004	0.020	9.9	19.6
C1 shielding gas						
0.030	1.30	0.48	0.004	0.020	9.8	19.4

Deposition Data

Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate
1.2 mm	150-250 A	25-32 V	8.0-16.0 m/min	2.5-7.0 kg/h
1.6 mm	200-350 A	26-34 V	4.0-11.0 m/min	3.0-7.5 kg/h