



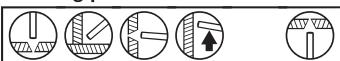
Cromacore 316LT1

FCAW - Flux cored arc welding
Stainless Steel

Description:

Cromacore 316LT1 is a rutile flux cored wire intended for welding the 19% Cr / 12% Ni / 3% Mo type stainless steels. The wire has been specially designed for fully positional welding at high welding currents. Suitable also for related stabilised grades if service temperature is below 400 °C. Cromacore 316LT1 operates with a very stable, spatter free arc and produces a bright, smooth weld bead surface and self-releasing slag. Ideal for high productivity welding in the vertical position.

Welding positions:



Welding current:

DC+

Deposition efficiency:

87%

Shielding gas:

M21, 80% Ar + 20% CO₂, 20-25 l/min

Stick-out:

15-20 mm

Ferrite content:

FN 9

Chemical composition, wt.-%

	C	Si	Mn	P	S	Cr	Ni
Min			0,5			17,0	11,0
Typical	0,026	0,68	1,40	0,027	0,010	18,95	12,52
Max	0,04	1,0	2,0	0,030	0,025	20,0	13,0

	Mo	Cu
Min	2,50	
Typical	2,80	
Max	3,00	0,5

Mechanical properties

Specified Typical

Yield strength, Rp0.2%: 497 MPa

Tensile Strength, Rm: ≥ 510 MPa 656 MPa

Elongation, A5: ≥ 30% 36%

Impact energy, CV: -20 °C • 52 J

Classification:

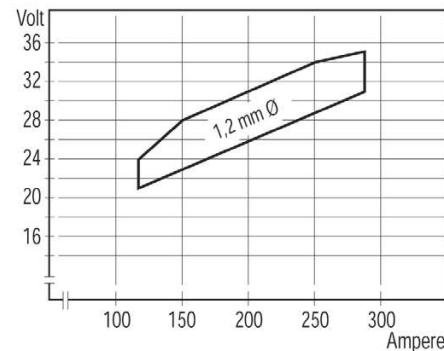
EN ISO 17633-A
AWS A5.22

T 19 12 3 L P M 1
E 316LT1-4

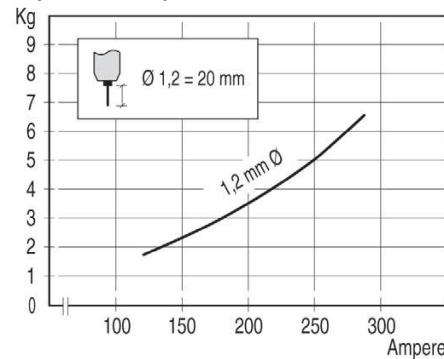
Approvals:

CE
TÜV
LR

Recommended parameter range:



Deposition rate per hour:



Product data:

Diam.mm	Spool weight
1,2	15 kg BS300
1,2	5 kg D200



Cromacore DW 316L

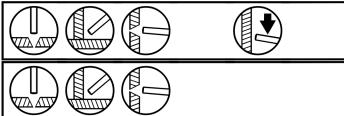
FCAW - Flux cored arc welding
Stainless Steel

Date: 2007-05-25
Revision: 13

Description:

Cromacore DW 316L is a rutile flux cored wire designed for welding the 19% Cr / 12% Ni / 3% Mo type stainless steels. Suitable also for related stabilised grades if service temperature is below 400 °C. The wire operates with a very stable, spatter free arc producing a bright, smooth weld bead surface and self-releasing slag. Cromacore DW 316L is used mainly for downhand and horizontal-vertical welding and is ideal for standing fillets. Cromacore DW 316L, 0.9 mm is intended for use with material thicknesses less than 3.0 mm.

Welding positions:



Welding current:

DC+

Deposition efficiency:

87%

Shielding gas:

M21, 80% Ar + 20% CO₂, 22-25 l/min
C1, 100% CO₂, 22-25 l/min

Stick-out:

15-25 mm

Ferrite content:

FN 9

Chemical composition, wt.-%

	C	Si	Mn	P	S	Cr	Ni
Min			0.5			17.0	11.0
Typical	0.03	0.7	1.2	0.025	0.009	18.3	12.1
Max	0.04	1.0	2.0	0.030	0.025	20.0	13.0

	Mo	Cu	V	Nb
Min	2.5			
Typical	2.8	0.11	0.1	0.08
Max	3.0	0.5	0.2	0.1

Mechanical properties

	Specified	Typical
Yield strength, Rp0.2%:		410 MPa
Tensile Strength, Rm:	≥ 510 MPa	570 MPa
Elongation, A5	≥ 30%	44%
Impact energy, CV:		-20°C • 40 J

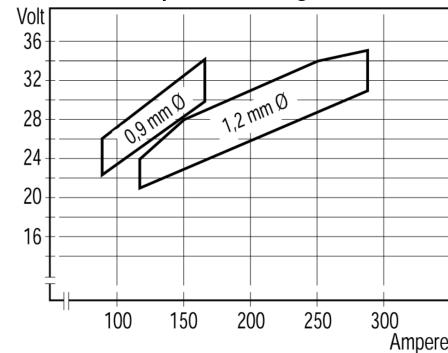
Classification:

AWS A5.22	E 316LT0-4/-1
ISO 17633-A	T 19 12 3 L R M/C 3
Werkstoff no.	1.4430

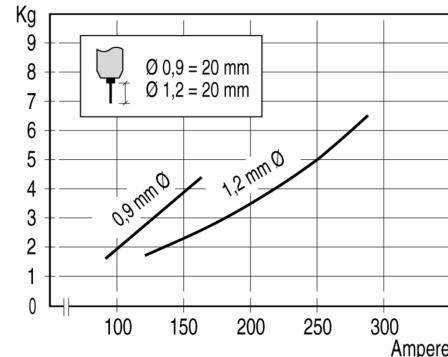
Approvals:

LR	316L S
DNV	316L
TÜV	07382.03
DB	43.042.09
GL	4571S
CE	

Recommended parameter range:



Deposition rate per hour:



Product data:

Diam.mm	Product code	Spool weight
0,9	95712009	12,5 kg D300
1,2	95711012	15 kg BS300
1,2	95711112	5 kg BS200

Note

Strip:
S ≤ 0.03%
P ≤ 0.04%
N ≤ 0.06%



Cromacore DW 309L

FCAW - Flux cored arc welding
Stainless Steel

Date: 2013-05-27
Revision: 13

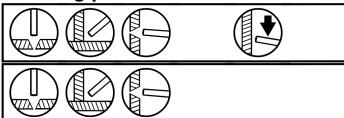
Description:

Cromacore DW 309L is a rutile flux cored wire which deposits a low carbon 24% Cr / 13% Ni stainless steel weld metal with a ferrite content of about FN 14. The wire operates with a very stable, spatter free arc producing a bright, smooth weld bead surface and self-releasing slag. Cromacore DW 309L is used mainly for downhand and horizontal-vertical welding and is ideal for standing fillets.

Applications:

Dissimilar joints between stainless and mild or low alloy steels.
Buffer layers on mild and low alloy steels prior to overlaying with Cromacore DW 308L/LP or DW 347.
Interface runs on clad steel joints.
Welding of similar composition, 309 type, stainless steels.
Joining of ferritic-martensitic stainless steels.

Welding positions:



Welding current:

DC+

Deposition efficiency:

87%

Shielding gas:

M21, 80% Ar + 20% CO₂, 22-25 l/min
C1, 100% CO₂, 22-25 l/min

Stick-out:

15-25 mm

Ferrite content:

FN 14

Chemical composition, wt.-%

	C	Si	Mn	P	S	Cr	Ni
Min			0.5			22.0	12.0
Typical	0.03	0.7	1.4	0.025	0.009	24.0	12.7
Max	0.04	1.0	2.5	0.030	0.025	25.0	14.0

	Mo	Cu	V	Nb
Min				
Typical	0.1	0.15	0.1	0.08
Max	0.50	0.50	0.2	0.1

Mechanical properties

	Specified	Typical
Yield strength, Rp0.2%:		460 MPa
Tensile Strength, Rm:	≥ 520 MPa	590 MPa
Elongation, A5	≥ 30%	36%
Impact energy, CV:		-20°C • 38 J

Classification:

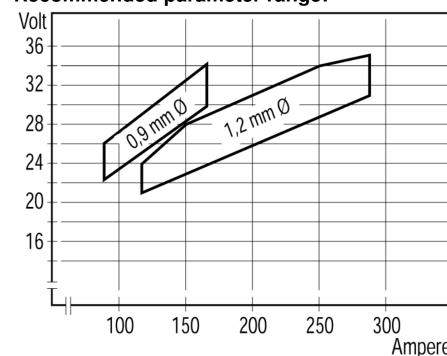
AWS A5.22
ISO 17633-A

E 309LT0-4/-1
T 23 12L R M/C 3

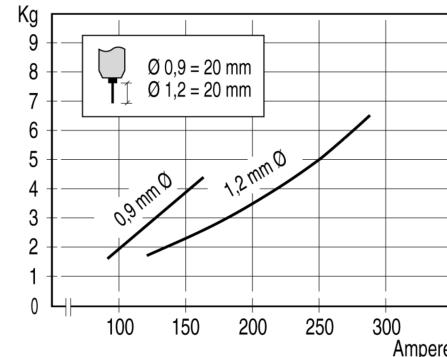
Approvals:

GL	4332S
LR	SS/CMn S, Dup/CMn
TÜV	07381.02
CE	

Recommended parameter range:



Deposition rate per hour:



Product data:

Diam.mm	Product code	Spool weight
0,9	95722009	12,5 kg D300
1,2	95721012	15 kg BS300
1,2	95721112	5 kg BS200

Note

Strip:
S ≤ 0.03%
P ≤ 0.04%
N ≤ 0.06%