

Cromacore DW 309MoLP

FCAW - Flux cored arc welding Stainless Steel

Date: 2011-03-02

Revision: 8

Description:

Cromacore DW 309MoLP is a fully positional rutile flux cored wire which deposits a 23% Cr/13% Ni/2.5% Mo stainless steel weld metal with a ferrite content of approximately FN 22. The high alloy content and high ferrite level enable the weld metal to tolerate dilution from dissimilar and difficult-to-weld steels without cracking. The wire operates with a very stable, spatter free arc to produce a bright, smooth weld bead surface and self-releasing slag. Ideal for high productivity welding in the vertical position.

Applications:

Dissimilar joints between stainless and mild, low alloy or medium carbon steels.

Buffer layers on mild and low alloy steels prior to overlaying with Cromacore DW 316L/LP.

Interface runs on 316L clad steels.

Joining of medium carbon hardenable steels eg. armour plate.

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 22

Chemical composition, wt.%

	С	Si	Mn	P	S	Cr	Ni
Min			0.5			22.0	12.0
Typical	0.02	0.7	1.3	0.024	0.009	23.0	12.9
Max	0.04	1.0	2.5	0.030	0.025	25.0	14.0

	Мо	Cu	V	Nb
Min	2.0			
Typical	2.4	0.11	0.1	0.08
Max	3.0	0.5	0.2	0.1

Mechanical properties

Specified	<u>i ypicai</u>		
Yield strength, Rp0.2%:			
≥ 550 MPa	710 MPa		
≥ 25%	30%		
Impact energy, CV:			
	≥ 550 MPa		

Specified

Typical

Classification:

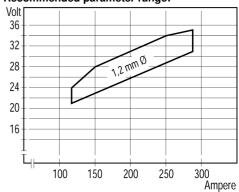
AWS A5.22 E 309LMoT1-4/-1 ISO 17633-A T 23 12 2 L P M/C 1

Werkstoff no. 1.4459

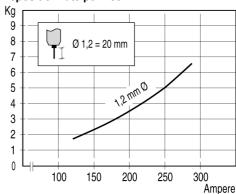
Approvals:

DNV 309MoL LR SS/CMn S

Recommended parameter range:



Deposition rate per hour:



Product data:

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Diam.mm	Product code	Spool weight				
1,2	95851012	15 kg BS300				
1,2	95851112	5 kg BS200				

Note

Note

Strip:
S ≤ 0.03%
P ≤ 0.04%
N ≤ 0.06%