

Cromacore DW 309MoL

FCAW - Flux cored arc welding Stainless Steel

Description:

Cromacore DW 309MoL is a 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. Cromacore DW 309MoL is used mainly for downhand and horizontal-vertical welding and is ideal for standing fillets.

Applications:

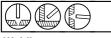
Dissimilar joints between stainless and mild, low alloy or medium carbon steels.

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

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Chemical composition, wt.%

	С	Si	Mn	Р	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	۷	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	Typical
Yield strength, Rp0.2%	:	540 MPa
Tensile Strength, Rm:	≥ 550 MPa	710 MPa
Elongation, A5	≥ 25%	30%
Impact energy, CV:		0℃ • 29 J

Date: Revision:

2007-05-25

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Classification: AWS A5.22

ISO 17633-A Werkstoff no.

Approvals:

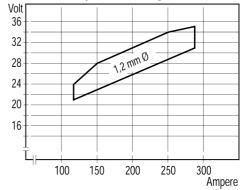
LR DNV GL TÜV CE SS/CMn S 309MoL 4459S 07383.04

1.4459

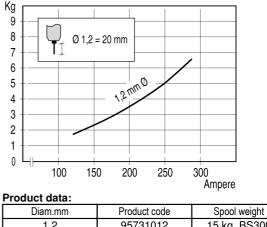
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T 23 12 2 L R M/C 3

Recommended parameter range:



Deposition rate per hour:



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1,2	95731012	15 kg BS300
1,2	95731112	5 kg BS200

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Note

- Strip: S ≤ 0.03%
- P ≤ 0.04%
- N ≤ 0.06%