

Description:

Cromarod 310

SMAW - (Stick) - MMA Stainless Steel Date: 2009-03-25 Revision: 20

EN 1600 E 25 20 R 12 AWS A5.4 ~E 310-17 ISO 3581-A E 25 20 R 12

Approvals:

Classification:

CE

25%Cr / 20%Ni, type 310, fully austenitic stainless steels, used for corrosion and oxidation resistance at elevated temperatures. Cromarod 310 can also be used to join difficult-to-weld steels such as armour plate and ferritic stainless steels, as well as dissimilar steels. Although the weld metal is fully austenitic the composition has been carefully balanced to give good resistance to hot cracking.

Cromarod 310 is a rutile coated electrode primarily intended for welding the

Welding positions:









Coating type:

Rutile

Welding current:

DC +, AC 0CV > 39V

Ferrite content:

FN 0 (WRC-92)

Corrosion resistance

Cromarod 310 is designed for high temperature oxidation applications and its resistance to wet corrosion is limited.

Scaling temperature:

Approx. 1150 $^{\circ}$ C in air. Reducing combustion gas, free of sulphur 1080 $^{\circ}$ C, maximum 2g S/m3 1040 $^{\circ}$ C.

Redrying temperature:

350 °C, 2h

Chemical composition, wt.%

	С	Si	Mn	Р	S	Cr	Ni
Min	0,06	0,5	2,0			25,0	20,0
Typical	0,10	0,65	2,5	0,02	0,02	26,0	21,0
Max	0,20	0,75	2,8	0,030	0,025	27,0	22,0

	Мо	Cu	V	Nb
Min				
Typical	0,1			
Max	0,5	0,5	0,1	0,1

Mechanical properties

Specified Typical

Yield strength, Rp0.2%: \geq 350 MPa Tensile Strength, Rm: \geq 560 MPa Elongation, A5 \geq 30%

410 MPa 600 MPa 35%

Impact energy, CV:

-60 °C • 60 J

Produkt data:

Diam.mm	Length mm	Product code	Current A	Voltage V	Kg weld metal/ kg electrodes	No. of electrodes/ kg weld metal	Kg weld metal/ hour arc time	Burn-off time/ electrode (sec.)
2,5	300	74362500	50-70	23	0,67	79	0,7	58
3,2	350	74363200	70-110	23	0,67	40	1,1	74
4,0	350	74364000	110-155	25	0,67	27	1,5	78

Note

AWS: Slight deviation in Mn

Core wire: $P \le 0.030\%$ $S \le 0.030\%$ $N \le 0.080\%$