

CARBO 4431 AC

International standards

Material No.	1.4431
EN 1600	E 20 10 3 L R 12
AWS A 5.4	E308MoL-17

Approvals TÜV, UDT

Characteristics and typical applications

CARBO 4431 AC is an AC-weldable, rutile coated electrode with an alloyed core, suitable for joining corrosion-proof CrNiMo steels of low carbon content as well as stabilised and non-stabilised steels of identical

or similar characteristics which are resistant to chemical agents. Especially on base materials which are at a risk of cracking,

CARBO 4431 AC can be used for joining austenitic to ferritic steels. Same

suitability for joint welding heat treatable steels, stainless Cr-steels, manganese steels, screening steels to each other and to dissimilar steel

types.

Operating temperature - 60° C up to + 300° C

Base materials Dissimilar joints of 1.4583 with H I / H II, 17Mn 4, StE 355

1.4583 with P235GH / P256GH, P295GH, P355N

 1.4404
 X2CrNiMo17-13-2
 1.4436
 X3CrNiMo17-13-3

 1.4435
 X2CrNiMo18-14-3
 1.4408
 GX5CrNiMo19-11-2

 1.4409
 X2CrNoMoN18-11-2
 1.4571
 X6CrNiMoTi17-12-2

 1.4429
 X2CrNiMoN17-13-3
 1.4583
 (G)X10CrNiMoNb-18-12

1.4401 X5CrNiMo17-12-2

Mechanical properties of all-weld metal

(typical values)

Weld metal analysis % (tpyical wt %)

С	Si	Mn	Cr	Ni	Мо
< 0,04	0,8	0,7	19	10	3

Current = $+/\sim/50 \text{ V}$

Welding positions PA, PB, PC, PD, PE, PF

Rebaking 1 h, 350° C + / - 10° C (if necessary)

Dia./Length	Amperage (A)	Pcs./packet	Pcs./carton	kg/1000	kg/packet	kg/carton
2,0 x 300	35 - 50	345	1379	11,6	4,0	16,0
2,5 x 300	40 - 85	217	870	18,4	4,0	16,0
3,2 x 350	70 - 115	138	551	36,3	5,0	20,0
4,0 x 350	95 - 140	91	364	55,0	5,0	20,0
5,0 x 450	125 - 180	54	217	110,6	6,0	24,0

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