

# CARBO 4430 MPR

#### International standards

Material No.	1.4430
EN ISO 3581-A	E 19 12 3 L R 53
AWS A 5.4	E 316L-17

**Approvals** 

### Characteristics and typical applications

CARBO 4430 MPR is an AC-weldable, rutile coated electrode with 160 % recovery, 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. Used on a base metal of identical characteristics the weld metal is resistant to wet corrosion up to 400° C.

Scale resistant up to 875° C in an air and oxidising gases atmosphere. No intercrystalline corrosion due to low carbon content.

The weld metal is capable of taking high polish.

Also approved for joining austenitic to ferritic steels (weld thin stringer

beads)

Operating temperature - 60° C up to + 400° C

**Base materials** 

1.4404	X2CrNiMo17-13-2	1.4437	GX6CrNiMo18-12
	X2CrNiMo18-14-3		GX5CrNiMo19-11-2
	GX2CrNiMo19-11-2		X6CrNiMoTi17-12-2
1.4429	X2CrNiMoN17-13-3	1.4580	X6CrNiMoNb17-12-2
1.4401	X5CrNiMo17-12-2	1.4581	GX5CrNiMoNb19-11-2
1.4436	X3CrNIMo17-13-3	1.4583	(G)X10CrNiMoNb18-12

#### **Mechanical properties** of all-weld metal

(typical values)

Tensile strength R <sub>m</sub> N/mm² Yield stren R <sub>p0,2</sub> N/mr		Elongation A₅ %	Impact strength ISO-V J at - 60° C		
550	380	35	> 32		

## Weld metal analysis

(typical, wt %)

С	Si	Mn	Cr	Ni	Мо
< 0,03	0,8	0,6	19	12	2,8

Current

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

**Welding positions** 

PA, PB,

Rebaking

1 h,  $350^{\circ}$  C + / -  $10^{\circ}$  C (if necessary)

Dia./Length	Amperage (A)	Pcs./packet	Pcs./carton	kg/1000	kg/packet	kg/carton
2,0 x 300	55 - 70	238	952	16,8	4,0	16,0
2,5 x 350	70 - 90	163	651	30,7	5,0	20,0
3,2 x 350	80 - 120	96	385	51,9	5,0	20,0
4,0 x 450	110 - 180	59	238	101,0	6,0	24,0
5,0 x 450	160 - 240	38	152	157,8	6,0	24,0

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