

CARBO 4431 MPR

International Standards	Material No.		1.4	431						
	EN ISO 3581-A	EN ISO 3581-A			20 10 3	L R 53	L R 53			
	AWS A 5.4			E3	08MoL	-26				
Approvals	-									
Typical applications and characteristics Operating temperature	CARBO 4431 MPR is an AC-weldable, rutile coated electrode with a recovery of 160%, 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, The electrode 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	1.4404 X2CrNiMo17-13-2 1.4436 X3CrNIMo17-13-3 1.4435 X2CrNiMo18-14-3 1.4408 GX5CrNiMo19-11-2 1.4409 GX2CrNiMo19-11-2 1.4571 X6CrNiMoTi17-12-2 1.4429 X2CrNiMoN17-13-3 1.4583 (G)X10CrNiMoNb18-12 1.4401 X5CrNiMo17-12-2 1.4583 mit H I / H II, 17Mn 4, StE 355 P235GH / P256GH, P295GH, P355N									
Mechanical properties of all-weld metal	Tensile strength Rm N/mm ²		Yield strenght Rp0,2 N/mm ²		t E	Elongation A5 %		act strenght D-V at - 60°C		
(typical values	700		540			30		50		
		D.A			NI:	Mo				
Weld metal analysis (typical, wt %)	C Si	M			Ni	Mo				
(typical, wt /0)	<u>≤</u> 0,04 0,8	0,	7 19	0 /	10,0	3,0				
Current	= + / ~ , 50 V									
Welding positions	PA, PB									
Rebaking	1 h, 350° C + / - 10° C (if nacessary)									
Dia./Length Amperage (A) Pcs./packet	Pcs.	/carton	kg /1	000 pc	s. ka/r	backet	kg / carton		

Dia./Length	Amperage (A)	Pcs./packet	Pcs./carton	kg /1000 pcs.	kg / packet	kg / carton
2,0 x 300	40 - 75	230	920	17,4	4,0	16,0
2,5 x 350	65 - 95	157	629	18,4	4,0	16,0
3,2 x 350	90 - 130	93	372	53,7	5,0	20,0
4,0 x 450	120 - 180	57	229	104,6	5,0	20,0
5,0 x 450	170 - 240	37	147	163,4	6,0	24,0

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Statements on composition and application are just for the applier.s information. Statements on mechanical properties always refer to the all-weld-metal according to valid standards. Carbo-Weld may change the characteristics of its products without notice. We recommend the applier to check our products for their special application autonomously.