

# CARBO CrMo 5 AC

<b>International standards</b>	Material No.	1.7373
	EN 1599	E CrMo5 R 12
	AWS A 5.5	E 8018
	AWS A 5.4	E 502-16

**Approvals** ---

**Typical applications and characteristics**

AC-weldable CrMo alloy electrode for welding joints with good mechanical properties to low alloyed quenched and subsequently tempered steels up to 1275 N/mm<sup>2</sup>.

Suitable for welding heat treatable, quenched and subsequently tempered steels as well as for tubes, resistant to caustic embrittlement for working temperatures up to 600°C.

Preheating and post weld heat treatment of base materials to be carried out acc. to the steel manufacturer's instructions.

**Operating temperature** Room temperature up to + 500 °C

<b>Base materials</b>	1.7380	10CrMo9-10	1.7259	26CrMo7
	1.7375	12CrMo9-10	1.7273	24CrMo10
	1.7380	GS-12 CrMo 9 10	1.7276	10CrMo11
	1.7379	GS-18 CrMo 9 10	1.7281	16CrMo9-3
	1.8075	10CrSiMoV7		

**Mechanical properties of all-weld metal**  
( typical values)

Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Yield strength R <sub>eL</sub> N/mm <sup>2</sup>	Elongation A <sub>5</sub> %	Impact energy ISO-V J + 20°C	1. Annealed 30 min.at 760°C 2. Tempered 30 min. at 950°C, then 30 min. at 760°C
620	490	> 17	> 70	1.
600	500	> 17	> 80	2.

**Weld metal analysis**  
(typical, wt %)

C	Si	Mn	Cr	Mo
0.06	0,7	1.0	5,1	0,5

**Current** =+ (-) ~ / 65 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
2,5 x 350	70 - 110	279	1117	17,9	5,0	20,0
3,2 x 350	95 - 150	166	662	30,2	5,0	20,0
4,0 x 350	130 - 190	109	437	45,8	5,0	20,0
5,0 x 450	150 - 240	65	261	92,0	6,0	24,0

Rev. 000

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.