

CARBO 316 H AC

International standards	Material No.	~ 1.4919	
	EN ISO 3581-A	E 19 12 2 R	
	AWS A 5.4	E 316H-16	

Characteristics and
typical applicationsCARBO 316 H AC is an AC-weldable, rutile coated high carbon CrNiMo
electrode with an alloyed core, primarily intended for welding 316H,
The alloy has an excellent resistance to pitting and intercrystalline
corrosion.
316H derivatives and stainless steels exposed to temperatures above
400°C.
Heat treatment is generally not necessary, in special cases Quench
annealing at 1050°C.

Interpass temperature Max. 150°C

Base materials	1.4401	ASTM 316
	1.4571	ASTM 316Ti
	1.4919	ASTM 316H

Mechanical properties of all-weld metal	Tensile strength R _m N/mm ²	Yield strength R _{p0,2} N/mm ²	Elongation A₅ %	Hardness HB	Impact strength ISO–V J at +20° C
(typical values)	610	470	35	Approx.210	50

Weld metal analysis	С	Si	Mn	Cr	Ni	Мо
(typical, wt %)	0,06	0,8	1,0	19	12	2,8

Current $= + / \sim ,50 V$

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

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

Dia./Length	Amperage (A)	Pcs./packet	Pcs./carton	kg/1000	kg/packet	kg/carton
2,5 x 300	50 - 75	221	884	18,1	4,0	16,0
3,2 x 350	85 – 120	140	559	35,8	5,0	20,0
4,0 x 350	120 – 160	92	369	54,2	5,0	20,0
5,0 x 450	160 – 190	55	221	108,8	6,0	24,0

Rev. 001/12

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.