

## 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<br/>typical applicationsCARBO 316 H AC is an AC-weldable, rutile coated high carbon CrNiMo<br/>electrode with an alloyed core, primarily intended for welding 316H,<br/>The alloy has an excellent resistance to pitting and intercrystalline<br/>corrosion.<br/>316H derivatives and stainless steels exposed to temperatures above<br/>400°C.<br/>Heat treatment is generally not necessary, in special cases Quench<br/>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 <sub>m</sub> N/mm <sup>2</sup>	Yield strength R <sub>p0,2</sub> N/mm <sup>2</sup>	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.