



Pinnacle Alloys are products of SOWESCO

E347-16 DATA SHEET

Pinnacle Alloys E347-16

AWS CLASS E347-16

CODE AND SPECIFICATION DATA:

AWS A5.4 ASME SFA 5.4; UNS W34710

DESCRIPTION:

Pinnacle Alloys E347-16 is utilized where conditions require maximum resistance to corrosion and is recommended where weld metal is subject to temperatures above 700°F. Pinnacle Alloys E347-16 was specially developed for welding grades of similar chemical composition, such as 302, 304, 321, and 347. This electrode is well suited for nuclear power plants.

DIAMETERS: 3/32", 1/8", 5/32", 3/16"

TYPICAL CHEMICAL COMPOSITION (Wt %):

Carbon (C)	0.04
Chromium (Cr)	19.0
Copper (Cu)	0.75 max
Manganese (Mn)	0.70
Molybdenum (Mo)	0.75 max
Nickel (Ni)	9.50
Phosphorous (P)	0.04 max
Silicon (Si)	1.00 max
Sulfur (S)	0.03 max
Niobium (Nb) +Tantalum (Ta)	0.40

TYPICAL MECHANICAL PROPERTIES:

Ultimate Tensile Strength (psi) 94,000 psi
Percent Elongation 42%

TYPICAL WELDING PARAMETERS:

Diameter	Length	Amperage	
		Flat	Vertical & Overhead
3/32"	12"	70-85	65-75
1/8"	14"	85-110	80-90
5/32"	14"	110-140	100-120
3/16"	14"	120-160	110-130

NOTICE: The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for the use in the field. The manufacturer disclaims any warranty of merchantability of fitness for any particular purpose with respect to its products.

CAUTION: Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 550 NW LeJune Road, Miami, FL 33126: OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.

Pinnacle Alloys MSDS sheet may be obtained at www.pinnaclealloys.com.