

WT E347 Data Sheet

Specifications:

AWS A5.4 AWS Class E347 (-15,-16,-17) ASME SFA 5.4 UNS W34710

Properties:

Tensile Strength: 75,000 psi min. **Elongation:** 30% min.

Description:

WT 347-16 electrodes are usually used for welding chromium-nickel alloys of similar compositions stabilized either with niobium or titanium. Electrodes depositing titanium as a stabilizing element are not commercially available because titanium is not readily transferred across the arc in shielded metal arc welding. Although niobium is the stabilizing element usually specified in Type 347 alloys, it should be recognized that tantalum is also present. Tantalum and niobium are almost equally effective in stabilizing carbon and in providing high-temperature strength. If dilution by the base metal produces a low-ferrite or fully austenitic weld metal deposit, crack sensitivity of the weld metal may increase substantially. Some applications, especially those involving high temperature service, are adversely affected if the ferrite content is too high. Consequently, a high-ferrite content should not be specified unless tests prove it to be absolutely necessary.

Available in multiple sizes and diameters. Available in -15, -16, -17 coating.

Chemical Composition (Wt%):

Si	Mn	Cu	Mo	S	Ni	Cr	P	С	Nb + Ta
1.0	0.5- 2.5	0.75	0.75	0.03	9.0- 11.0	18.0- 21.0	0.04	0.08	(8xC) min. – 1.0 max.

Note: Single values are maximum unless otherwise noted.

Maintaining a proper welding procedure, including pre-heat and interpass temperatures, may be critical depending on the type and thickness of material being welded.

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, 8669 NW 36 Street, #130, Miami, FL 33126: OSHA Safety and Health Standards 29 CRF 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.