

**Specifications:**

AWS A5.4  
AWS E309/309L (-15,-16,-17)  
ASME SFA 5.4  
UNS W30910/ W30913

**Properties:**

**Yield Strength:** 59,000 psi  
**Tensile Strength:** 88,500 psi  
**Elongation:** 36%

**Description:**

**E309/E309L-16 has a reduced possibility of intergranular carbide precipitation, increasing the resistance to intergranular corrosion without the use of niobium. Deposits are not as strong at elevated temperatures as the niobium-stabilized alloy or E309H deposits. This electrode is commonly used for welding dissimilar steels, such as joining Type 304 to mild or low-alloy steel, the welding of clad steel to Type 304 clad steels, welding the first layer of E308L, welding and applying stainless steel sheet linings to carbon steel. Embrittlement or cracking can occur if these dissimilar welds are subjected to a postweld heat treatment or to a service above 700 Fahrenheit.**

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

**Chemical Composition (Wt%)**

Si	Mn	Cu	Mo	S	Ni	Cr	P	C
0.90	0.5-2.5	0.75	0.75	0.03	12.0-14.0	22.0-25.0	0.04	0.04

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 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.