

**Specifications:**

AWS A5.9  
 AWS Class ER316/316H  
 ASME SFA 5.9  
 UNS S31680

**Properties:**

**Tensile Strength:** 88,500 – 94,000 psi  
**Yield Strength:** 59,000 psi  
**Elongation:** 35-38%

**Description:**

WT 316/316H is a filler metal that is mainly used for welding alloys of similar composition. This alloy contains a low carbon content of between 0.04-0.08%, which allows for a higher tensile strength at higher temperatures. WT 316/316H contains molybdenum which allows for a better creep resistance at higher temperatures. This is often used in petrochemical industries as well as power plants and turbine components.

Available in multiple sizes and diameters in spool and wire rods.

**Chemical Composition (Wt%)**

Si	Mn	Cu	Mo	S	Ni	Cr	P	C
0.30-0.65	1.0-2.5	0.75	2.0-3.0	0.03	11.0-14.0	18.0-20.0	0.03	0.04-0.08

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.