

**Specifications:**

AWS A5.28  
 AWS ER80S-B9  
 UNS S50280  
 AMS 6466

**Properties:**

**Tensile Strength:** 80,000 psi min.  
**Yield Strength:** 68,000 psi min.  
**Elongation:** 17% min.

**Description:**

WT 502 is a corrosion resistant steel. It can be welded to ASTM: A537, A155, A335, A199, A213, A217, A387, UNS 50100, oil refinery components, pressure vessel steam systems, steam turbine components. It is often used to weld materials of similar composition. WT 502 is air-hardening, thus preheating and postweld heat treatment is required.

Available in multiple sizes and diameters in spool and wire.

**Chemical Composition (Wt%)**

Si	Mn	Cu	Mo	S	Ni	Cr	P	C	Fe
0.25-0.60	0.60	0.35	0.45-0.65	0.03	0.60	4.5-6.0	0.03	0.10	BAL

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.