

**Specifications:**

AWS A5.18  
ASME SFA 5.18  
AWS ER70S-3  
UNS K11022

**Properties:**

**Tensile Strength:** 70, 000 psi min.  
**Yield Strength:** 58,000 psi min.  
**Elongation:** 22% min.

**Description:**

WT 70S-3 is a general purpose, mild steel wire used for both single and multipass applications. With the added silicon and manganese, WT 70S-3 can be welded over clean to light rust steel. It is flexible and is good for heavy-duty applications to lighter duty applications, and it has a smooth stable arc with a weld bead that ties in evenly with the sides giving a smooth appearance. It is typically used in pressure vessels, pipes, railcar construction, automotive frames, and high speed robotic and automatic welding applications.

Available in multiple sizes and diameters in spool and wire and in different finishes/coatings.

**Chemical Composition (Wt%):**

Si	Mn	Cu	Mo	S	Ni	Cr	P	C	V	Fe
0.45-0.75	0.9-1.4	0.5	0.15	0.035	0.15	0.15	0.025	0.06-0.15	0.03	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.