

**Specifications:**

AWS A5.9  
AWS Class ER 430  
ASME SFA 5.9  
UNS S43080

**Properties:**

**Tensile Strength:** 77,000 psi  
**Yield Strength:** 59,000 psi  
**Elongation:** 25%

**Description:**

**ER 430 is a stainless steel that was created to provide good ductility in heat-treated environments. ER 430 is typically used to weld alloys of similar compositions, as well as for thermal spray and overlays. ER 430 is a ferritic stainless steel.**

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

**Chemical Composition (Wt%):**

Si	Mn	Cu	Mo	S	Ni	Cr	P	C
0.50	0.60	0.75	0.75	0.03	0.60	15.5-17.0	0.03	0.10

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.