

Alloy 82 DATA SHEET

AWS Class A5.14

AWS ERNiCr-3, ASME SFA-5.14 IX F-43

UNS N06082

AMS 5836

DEPOSIT COMPOSITION

Ni	Fe	Cu	Mn	Si	S	C	Cr	P
67.00 min	3.00 max	0.50 max	2.50-3.50 max	0.50 max	0.03 max	0.10 max	18.00-22.00	0.03 max
Ti	Co	Nb / Ta						
0.75 max	0.12 max	2.00-3.00						

Used to weld alloy 600, 601, 800, and 825 in addition to other dissimilar welding applications with carbon and stainless steel. The deposited weld metal has good corrosion and oxidation resistance.

Diameters

0.030"	0.035"	0.045"
3/32"	1/16"	1/8"
5/32"	3/16"	

Available in TiG cut length, MiG spools, and coil forms

Maximum Tensile Strength: 80,000 psi

Percent Elongation in 2": 30%

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 CRF 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210. SDS' may be obtained at the website below.