# MIDALLOY ER410NIMO BARE WIRE

## CLASSIFICATION

• AWS 5.9 Class ER410NiMo / ASME SFA 5.9 Class ER410NiMo (UNS S41086)

## DESCRIPTION

• MIDALLOY ER410NiMo bare welding wire is a martensitic stainless steel. Normally the chromium is kept on the low and the nickel high to avoid ferrite formation in the weld metal.

## **APPLICATIONS**

- Typical applications include welding, repairing and overlaying of type 410 and 410NiMo castings (ASTM CA6NM)9 and wrought materials.
- ER410NiMo is used in the hydropower industry to combat erosion corrosion.
- Other welding applications include valves, valve seating surfaces, gears, propeller stafts, and impellers.
- Normally ER410NiMo has better weldability than ER410 due to it's low carbon content.

#### **TYPICAL CHEMISTRY**

C	Mn	Si	Cr	Ni	Мо	Cu	S	Р	Fe		
.02	.44	.33	11.80	4.50	0.55	0,3	.021	.017	BAL.		

### **TYPICAL MECHANICAL PROPERTIES\***

TENSILE STRENGTH	118,000 PSI
YIELD STRENGTH	98,000 PSI
ELONGATION IN 2"	17%

\***Note:** Mechanical properties listed reflect a post weld heat treatment @ 1125°F for 1 hour. Temperature above 1150°F may result in re-hardening in the weld metal.

## WELDING PARAMETERS (see Page 2)

#### **OTHER INFORMATION**

Preheat and inter-pass temperatures are usually 350°F.

#### STANDARD PACKAGING

- TIG 10 lb. tube / 60 lb. carton
- MIG 30 lb. spool
- SAW 60 lb coils

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.

