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

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