

# COR™STAIN 410 FC

#### DESCRIPTION

COR<sup>™</sup>STAIN 410 FC is a typical AISI 410 martensitic stainless steel alloy in a fluxcored tubular wire with excellent operating characteristics.

## **APPLICATIONS**

Typical uses include: welding base metals of a similar composition, and overlays on mild and low alloy steels for mild corrosion and abrasion resistance.

#### PROCEDURE

Preheat to 400-600°F, the higher end will be better. Slow cool after welding to below 212°F or to room temperature. Temper at 1400°F for one hour per inch of greatest thickness. Slow cool to 600°F at a rate not to exceed 100°F/Hr then air cool to room temperature. A second temper following the same procedure, as the first may be beneficial to transform retained austenite to tempered martensite, this will give maximum ductility.

#### WELDING PARAMETERS

Type	Size	Volts	Amps	Shielding Gas	Stickout
MC-G	.045"	18-21	140-200	75%Ar-25%CO <sub>2</sub>	0.5"
FC-G	.045"	18-21	140-200	75%Ar-25%CO <sub>2</sub>	0.5"
FC-G	1/16"	24-27	250-300	75%Ar-25%CO <sub>2</sub>	0.75"
FC-O	1/16"	24-27	180-250	none	1.5"
FC-O	3/32"	29-31	300-375	none	1.5"
FC-S	1/8"	28-31	350-500	*	1.0"
FC-S	5/32"	28-31	350-500	*	1.0"

\* Submerged arc wires are available in 1/16"-5/32"; Suggested fluxes: Lincoln ST-100, 880M, or 880.

## TYPICAL MECHANICAL PROPERTIES AFTER 1400°F TEMPER

Tensile: 75,000 psi minimum Elongation: 20% minimum

# **CLASSIFICATION**

AWS A5.22, Class E410TX-X