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COR™STAIN 630 FC

DESCRIPTION

COR™STAIN 630 FC is a flux-cored, 17-4 precipitation hardening stainless steel wire. 630 FC is a martensitic type alloy, which combines high strength and hardness with excellent corrosion resistance. This alloy can be hardened by a single low-temperature heat treatment.

APPLICATIONS

630 is typically used to join 17-4PH, 15-5PH, and 17-7PH stainless steels. Specific uses include pump parts, shafts, flexible bellows, marine, and aerospace applications.

PROCEDURE

A preheat is not required. Minimize heat input. Multipass weldments may require an anneal for uniform hardness. Age harden at 900°F for 1 hour and air cool.

WELDING PARAMETERS

Size Typ	e Volts	Amps	Stickou	ut Shielding Gas
.045" FC-0	G 23-27	140-180	1/2"	CO ₂ or 75Ar%-25%CO ₂
1/16" FC-0	G 24-28	200-250	1/2"	CO ₂ or 75Ar%-25%CO ₂

MECHANICAL PROPERTIES

Hardness: 31 Rc as welded

41 Rc age hardened at 900°F

CLASSIFICATION

17-4 Precipitation Hardening Stainless Steel