MIDALLOY MASTERCOR™ E347T1-1/4 / E347HT1-1/4 A/P FLUX-CORED WIRE

CLASSIFICATION

- AWS 5.22 Class E347T1-1, E347HT1-1, E347T1-4, and E347HT1-4 / ASME SFA 5.22 Class E347T1-1, E347HT1-1, E347T1-4, and E347HT1-4. This product can be run with 100% CO2 shielding gas or 75% Argon 25% / CO2 mixed gas.
- UNS W34731 A#8 F#6

DESCRIPTION

 Midalloy Mastercor[™] E347T1-1/4 and E347HT1-1/4 AP are all-position flux-cored wires used to weld 347 and 321 stainless. Midalloy Mastercor E347T1-1/4 and E347HT1-1/4 AP have excellent slag removal and runs with a spatter free globular transfer. The weld deposit has 5-15% ferrite. Niobium (Cb) is used as the stabilized element for this austenitic stainless steel flux-cored wire.

APPLICATIONS

- Typical applications include welding, repairing, and overlaying of stabilized grades of stainless steel such as type 347 and type 321.
- Midalloy Mastercor™ E347T1-1/4 and E347HT1-1/4 AP is used in the refinery industry to combat high temperature erosion, corrosion, and fatigue.
- Other welding applications include valves, valve seating surfaces, gears, propeller shafts, and impellers.
- Normally E347 is normally used to weld AISI 321 since Titanium will not transfer across the arc.

TYPICAL CHEMISTRY

С	Mn	Si	Cr	Ni	Мо	Cu	Nb (Cb)*	S	Р	Ν
0.06	1.84	.63	20.2	10.35	0.2	0.20	0.68	0.02	0.03	0.05
* Nh (Ch) is 0 times the Certain content to a maximum of 1 00/										

* Nb (Cb) is 8 times the Carbon content to a maximum of 1.0%.

FERRITE CONTENT 5 to 15 FN per WRC92

TYPICAL MECHANICAL PROPERTIES*

TENSILE STRENGTH	88,000 PSI
YIELD STRENGTH	55,000 PSI
ELONGATION IN 2"	40%

Toughness 35 FT. LBS. @ 32°F

WELDING PARAMETERS (WITH CO2 SHIELDING GAS)

		AMPERAGE (WIRE FEED SPEED ipm)				
	VOLIAGE	FLAT	VERTICAL & OVERHEAD			
.045"	24-28	130-200 (250 to 425)	120-160 (225 to 300)			
1/16"	25-30	180-250 (150 to 250)	180-220 (150 to 200)			

NOTE: IF USING MIXED GAS, VOLTAGE CAN BE INCREASED BY 2 VOLTS.

STANDARD PACKAGING

33 lb. Spool

• 1/16" 33 lb. Spool

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