MIDALLOY MASTERCOR® E2553T1-1/4 AP FLUX-CORED WIRE

CLASSIFICATION

- AWS 5.22 Class E2553T1-1 and E2553T1-4 / ASME SFA 5.22 Class E2553T1-1 and E2553T1-4
- UNS# W39533 A#8 F#6

DESCRIPTION

- MIDALLOY MASTERCOR E2553T1-4 is an all-position flux-cored wire designed to run on 75% Ar / 25% CO₂.
- This wire is designed to have excellent slag removal and runs with a spatter-free globular transfer.

APPLICATIONS

- MIDALLOY MASTERCOR E2553T1-4 AP flux-cored wire is used for joining duplex stainless steel alloys with approximately 25% Chromium.
- These duplex stainless steel alloys combine high tensile and yield strengths with improved resistance to pitting, corrosion, and stress corrosion cracking. These requirements are typically found in the marine, chemical, and petroleum industries.
- If post-weld annealing is required, this weld metal will require a higher annealing temperature than that required by the duplex base metal.

PROCEDURE

- No preheat. Maximum interpass temperature of 300° F.
- Annealing may be required to achieve uniform hardness on multi-pass weldments.
- Heat input should be limited to 5-40 KJ/IN.

TYPICAL CHEMISTRY

С	Cr	Ni	Мо	Mn	Si	Р	S	N	Cu	
0.02	25.3	9.8	3.37	0.80	0.70	0.03	0.015	0.14	1.87	

TYPICAL MECHANICAL PROPERTIES

HARDNESS	25 RC as welded		
	35 RC work hardened		
TENSILE STRENGTH	110,000 PSI Min.		
ELONGATION	15% Min.		

WELDING PARAMETERS

SIZE	VOLTAGE	AMPERAGE	GAS
.045"	25-30	130-220	75% Ar / 25% CO ₂ or 100% CO ₂

STANDARD PACKAGING

• 33 lb. spool

8/4/11

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.



