MIDALLOY ER80S-Ni2 WELDING WIRE

CLASSIFICATION

 AWS A5.28 Class ER80S-Ni2 / ASME SFA 5.28 Class ER80S-Ni2 (UNS K21240), EN10204 and EN 440 G2 Ni2, EN 1688 W2 Ni2

DESCRIPTION

- MIDALLOY ER80S-Ni2 is a copper free bare wire used for GMAW and GTAW welding.
- ASME Section IX F#6 A#10

APPLICATION

MIDALLOY ER80S-Ni2 welding wire is used for Tig root passes or Tig & Mig joining for low-temperature, fine-grained steels. These alloys have higher strength and require good toughness at temperatures as low as -60°F.

TYPICAL CHEMISTRY

С	Mn	Si	Р	S	Ni	Cr	Мо	V	Cu
.11	1.02	.58	.012	.010	2.35	.04	.01	.002	.14

TYPICAL MECHANICAL PROPERTIES PWHT

TENSILE STRENGTH	88,000 PSI (620 KPA)
YIELD STRENGTH	71,950 PSI (510 KPA)
ELONGATION IN 2"	25%
CHARGE IMPACT@ -60°C	38 ft. lbs. Average 50 joules

RECOMMENDED WELDING PARAMETERS

PROCESS	DIA. OF WIRE	AMPERAGE	VOLTAGE	GAS/FLUX					
	1/16"	50-120	7-13	Ar					
GTAW	3/32"	120-200	10-16	Ar					
	1/8"	150-220	12-18	Ar					
GMAW (MIG)	.035"	90-160	14-20	CO ₂					
` '	.045"	120-200	16-20	CO ₂ or 75 Ar/25 CO ₂					
SHORT ARC	1/16"	-	-	CO ₂ or 75 Ar/25 CO ₂					
GMAW (MIG)	.035"	180-230	25-28	98 Ar/2 O ₂ or					
SPRAY	.045"	250-350	25-30	75 Ar/25 CO ₂ or					
TRANSFER	1/16"	280-400	26-36	90 Ar/10 CO ₂					

STANDARD PACKAGING

• MIG 33 lb. Spool

• TIG 10 lb. Tubes / 60 lb. Cartons

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