MIDALLOY ER309LMo BARE WIRE

CLASSIFICATION

- Non AWS Close to Class in AWS 5.9 ER309LMo except Cr is lower and Ni is higher
- EN ISO 14343 S 23 12 2L

DESCRIPTION

- MIDALLOY ER309LMo is an all-purpose stainless wire.
- Carbon content value is controlled to be less than 0.03%
- Cr content 21 to 22%, Ni content 15%
- Ferrite 8FN Average

APPLICATION

- For overlay welding of carbon steel to get a type 316 deposit.
- Dissimilar metal welding of carbon and low alloy steels to stainless steel and duplex stainless steels.

TYPICAL CHEMISTRY

С	Cr	Ni	Мо	Mn	Si	Р	S	Cu
0.02	22.0	15.0	2.5	1.30	0.40	0.015	0.005	0.08

TYPICAL MECHANICAL PROPERTIES

TENSILE STRENGTH	90,900 PSI
ELONGATION IN 2"	35%
HEAT TREATMENT	NONE

RECOMMENDED WELDING PARAMETERS

PROCESS DIAMETER		VOLTAGE AMPERAGE		GAS/FLUX*						
	1/16"	14-18	90-130	100% Ar						
TIG (GTAW)	3/32"	15-20	120-175	100% Ar						
	1/8"	15-20	150-220	100% Ar						
	.035" SHORT ARC	16-26	70-160	69%Ar-30%He-1%O ₂						
MIG (GMAW)	.035" SPRAY ARC	26-31	150-230	92%Ar-8%Co₂ or						
	.045" SPRAY ARC	28-32	180-280	98%Ar-2%O ₂						
SUB ARC (SAW)	3/32"	28-30	275-350	Record IN or						
SUD AND (SAW)	1/8"	29-32	350-450	Record IND 24						

STANDARD PACKAGING

TIG 10 lb. tube / 60 lb. carton

MIG 30 lb. spoolSAW 60 lb. coil

3/2/17

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