MIDALLOY ER320LR BARE WIRE

CLASSIFICATION

• AWS 5.9 Class ER320LR / ASME SFA 5.9 Class ER320LR

DESCRIPTION

 MIDALLOY ER320LR stainless steel wire is used for GMAW and GTAW of Alloy 20 (UNS N08020). The following specifications cover Stainless Steel Alloy 20: AISI 664, ASTM B366, ASTM B462, ASTM B463, ASTM B464, ASTM B468, ASTM B471, ASTM B473, ASTM B474, ASTM B475, ASTM B729, DIN 2.4660, UNS N08020

APPLICATIONS

 MIDALLOY ER320LR is used to weld metals with similar composition; such as 20 CB-3, in wrought and cast forms. This product is vacuum melted to reduce levels of carbon, phosphorus, and sulfur to reduce microfissuring. Columbium and manganese are also controlled to a tighter specification for this purpose.

TYPICAL CHEMISTRY

С	Si	Cb	Mn	Р	Та
.015	.070	.22	1.85	.010	.009
Cr	S	V	Мо	Cu	Ni
20.02	.002	.039	2.41	3.50	32.92

TYPICAL MECHANICAL PROPERTIES

TENSILE STRENGTH	75,000 PSI Minimum	
YIELD STRENGTH	57,500 PSI	
ELONGATION IN 2"	35%	

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	26-29	150-180	99% Ar + 1% O ₂
MIG (GMAW)	.045" SPRAY ARC	28-32	180-250	or
	1/16" SPRAY ARC	29-33	200-300	97% Ar + 3% C0 ₂

PACKAGING

TIG 10 lb. tube/60 lb. carton

MIG 30 lb. spool

5/1/20

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