

Ni-Cu Welding Electrode

MONEL® Welding Electrode 190

MONEL Welding Electrode 190 is used for shielded-metal-arc welding of MONEL alloys 400, R-405, and K-500. It is also used for surfacing of steel. The weld metal is resistant to corrosion by sea water, salts, and reducing acids. The electrode is capable of producing weld deposits that meet stringent radiographic requirements. Although the electrode produces sound joints in MONEL alloy K-500, the weld metal has lower strength since, unlike the base metal, it is not age hardenable. Dissimilar-welding applications for MONEL Welding Electrode 190 include joints between MONEL nickel-copper alloys and carbon steel, low-alloy carbon steel, copper, and copper-nickel alloys.

The electrodes provide excellent operability for groove and fillet welding in the downhand position and the smaller diameter electrodes are also suitable for all position welding. Power supply: direct current, electrode positive.

Specifications

AWS A5.11 ENiCu-7 (UNS W84190)
ASME II, Part C, SFA-5.11, ENiCu-7 (UNS W84190)
ASME IX, F-No.42
*DIN 1736 EL-NiCu30Mn (2.4366)
*(EN) ISO 14172 – ENi4060 (NiCu30Mn3Ti)
*Supply to these specifications available upon request
For manufacture to ASME III (NCA3800, NB2400), MIL and other specifications please refer your inquiry to the Technical Department prior to order placement.

Approvals

VdTUV 2106.01
Other approvals may be applicable. Please confirm details of current scope of approvals with the Technical Department prior to order placement.

Limiting Chemical Composition	Ni+Co		Cu	
		62.0-68.0	Remainder	
	C.....	0.15 max.	Al	0.75 max.
	Mn.....	4.0 max.	Ti	1.0 max.
	Fe.....	2.5 max.	P	0.02 max.
	S	0.015 max.	Others	0.50 max.
	Si.....	1.0 max.		

Minimum Mechanical Properties	Tensile Strength, psi		70,000
		MPa	483
	Elongation, (4d) %		30

Available Product Forms – Supplied in 10lbs (4.54kg) hermetically sealed containers

Diameter	mm		3.2		
Length	mm		356		
Current (DC+)	A		75-110		

Rod Diam.	4.54 kg Pack
3.2mm	SME19032

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