

## Ni-Cr-Co-Mo Welding Electrode

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## **INCONEL®** Welding Electrode 117

**INCONEL Welding Electrode 117** is used for shielded-metal-arc welding of INCONEL alloy 617. The weld metal has high strength, good metallurgical stability and excellent resistance to corrosion and high-temperature oxidation. INCONEL Welding Electrode 117 also gives good results in welding many dissimilar materials, especially for high-temperature applications. Examples are INCONEL alloys 600 and 601, INCOLOY alloys 800HT and 803, and cast alloys such as HK-40, HP and HP-45 Modified.

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 ENICrCoMo-1 (UNS W86117)

ASME II C SFA-5.11, ENICrCoMo-1 (UNS W86117)

ASME IX, F-No.43

\*DIN 1736 E-NiCr21Co12Mo (2.4628)

"(EN) ISO 14172 - ENi6617 (NiCr22Co12Mo)

Supply to these specifications available upon request

For manufacture to ASME III (NCA3800, NB2400), and other specifications please refer your inquiry to the Technical Department prior to order placement.

## Approvals

VdTUV 926/012178

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 Remainder   Cr 21.0-26.0   Co 9.0-15.0   Mo 8.0-10.0   C 0.05-0.15   Fe 5.0 max	Nb+Ta	
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Mechanical Properties	MPa Elongation, (4d) %	620 25	

Available Product Forms - Supplied in 10lbs (4.54kg) hermetically sealed containers					
Diameter	mm	2.4	3.2	4.0	4.8
	in	3/32	1/8	5/32	3/16
Length	mm	229	356	356	356
	in	9	14	14	14
Current (DC+)	A	40-60	75-100	90-130	125-150