CEWELD®

E NiCro 600

CATEGORY SMAW Stick Electrodes

TYPE Nickel based high basic SMAW welding electrode.

APPLICATIONS CEWELD E NiCro 600 electrodes are used for welding of nickel-chromium-iron (Inconel 600, 601 and 690)

alloys to themselves, and for dissimilar welding between nickel-chromium-iron (Monel, Inconel and incoloy) alloys and steels or stainless steels. The applications include surfacing as well as clad-side welding. High manganese of this weld deposit reduces the possibility of micro fissures. High manganese reduces creep

strength, which limits its usage up to 900°F

PROPERTIES High mechanical properties with excellent thermal schock resistance and impact values at sub zero

temperatures down to -196°C

.

F-No. 43

A 5.11: E NiCrFe3

EN ISO 14172: E Ni 6182

FM6

DIN: W.Nr. 2.4807

AWS

DIN 1736: EL-NiCr15FeMn

SUITABLE FOR

CLASSIFICATION

Dissimilar welds for which the electrode are used include INCONEL alloys and INCOLOY or Hastelloy alloys joined to carbon steels, stainless steels, nickel and MONEL alloys, MONEL alloys joined to carbon steels; nickel joined to stainless steels; and stainless steels joined to carbon steels.

Alloy type: Incoloy 800, DS - Inconel 600, 601, UNS Nr (unified numbering system): K 81340, N06600, N06601, N08800, N08810. DIN design: X8Ni9 - 12Ni19 - 10Ni 14 - NiCr15Fe - NiCr23Fe - X10NiCrAlTi3220 - X10CrNiMoNb18.12 - NiCr20Ti. W.Nrs: 1.5662 - 1.5680 - 1.5637 - 1.4864 - 1.4876 - 1.4583 - 2.4816 - 2.4851 - 2.4951, 2.4806, Alloy 82, 1.4816, 600L, 800H, Alloy 80A, Aloy 75, difficult to Weld steel, chain, cock wheels, kiln tyre

APPROVALS CE approved

WELDING POSITIONS:



WELT METAL ANALYSIS %

Ni	С		Mn	Fe	S	i	Si	Ī	Cu	Ī	Ti	Cr		Nb		Р		Other
> 59.0	< 0.10	Ē	5.0-9.5	< 10.0	0.015	-	< 1.0	-	< 0.50		< 1.0	13.0-17.0	Ŧ	1.0-2.5	Ē	< 0.030	-	< 0.50

MECHANICAL PROPERTIES

Heat	Tensile st	rength	Yield	strength	Elongation
Treatment	(PSI)	(MPA)	(PSI)	(MPA)	(%)
AW	>80,000	>552	>53.5	>370	36

AW: as welded

WELDING PARAMETERS PACKING

	Welding Param	Packing					
D (mm)	Length (mm)	Current (A) DC+	kg / can	kg / 6pack			
2.4	229	40-65	2.27	13.62			
3.2	356	65-95	2.27	13.62			
4.0	356	95-125	2.27	13.62			