

## Selectarc Ni182

Basic coated Inconel type Electrode

Classification		
AWS A5.11 : ENiCrFe UNS : W86182	ISO 14172 : E-Ni 6182 Material N° : 2.4620	(NiCr15Fe6Mn)

**Description & Applications** 

Basic coated electrode with an NiCrFe type nickel base deposit. Used for repairing and joining of Nickel alloys, 5 % Nickel steels, cryogenic stainless steels (down to -196°C), Incoloy 800 and other high temperature steels. For joining dissimilar materials as stainless steels to low alloyed steels, stainless steels to Nickel alloys, for buttering of difficult to weld steels. Deposit insensitive to cracks, very good resistance against acids, salt and alkaline solutions, molten salt. Resistant in oxidizing and carburizing atmospheres (avoid a sulphurous atmosphere).

**Main applications:** Oven parts, burners, heat treatment equipment, cement works, moulds, tanks, transport and storage of liquid gas. Chemical industries, petrochemical industries, glassworks, civil engineering, repairing and maintenance workshops. Note:"Incone!" and "Incoloy" are registered trade names of Inco Alloys.

Base materials		UNS Alloy		DIN		Material N°		
		N06600	N06600 600		NiCr15Fe		2.4816	
		N08800	800	X10NiCr/	AITi3220	1.4876		
		N08810	800H	X5NiCrA	Ti3120	1.4958		
			DS	X8NiCrSi	i3818	1.4862		
Typical Weld	Metal Com	position(%)						
С	Si	Mn	Cr	Nb	Fe	Мо	Ni	
<0.04	0.4	6.0	16.5	2.0	6.0	0.2	Rem.	
All Weld Meta	al Mechanic	al Properties						
R <sub>p0,2</sub> ( N	/IPa)	R <sub>m</sub> ( MPa	a)	A <sub>5</sub> ( %	6)	KV	(J)	
>380		>620	>620		>35		+20°C >80	
						-196°C	>65	

Electrode	ØxL (mm)	2,5x300	3,2x350	4,0x350	5,0x450
Current	(A)	50-70	70-95	90-120	120-160

Redrying 1 h at 250-300°C. Joints to weld must be clean, exempt from grease, cracks. Guide electrodes with a slight declination, weld with a short arc and prevent a high heat input by applying the stringer bead technique (weaving max. 2-3 times core wire diameter).







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