

## **Product Data Sheet**

E 'Manual metal-arc welding'

**OK NiCu-7** 

Former OK 92.86

Prepared by	Qualified by	Approved by	Reg no	Cancelling	Reg date	Page
A-C Thorsson	P-O Oskarsson	Tapio Huhtala	EN007405	EN007080	2016-11-08	1 (2)

### **REASON FOR ISSUE**

Hardness data added under Other Data.

### **GENERAL**

OK NiCu-7 is used for welding NiCu-alloys to themselves and to mild- and low alloy steel. Also suitable for welding NiCu-cladding on mild and low alloy steel.

Polarity: DC+ Alloy Type: NiCu-alloy

Coating Type: Basic Ferrite Content: FN 0

### **WELDING POSITIONS**











### **CLASSIFICATIONS Electrode**

**APPROVALS** 

SFA/AWS A5.11

ENiCu-7

Not applicable

EN ISO 14172 E Ni 4060 (NiCu30Mn3Ti)

### **CHEMICAL COMPOSITION**

### All Weld Metal (%)

Min	Max
	0.10
	1.0
1.0	4.0
	0.020
	0.015
62.0	69.0
	0.3
27.0	34.0
	0.5
	1.0
0.5	2.5
	0.3
	1.0 62.0 27.0

### **MECHANICAL PROPERTIES OF WELD METAL**

	AWS				
Properties	As welded Min	Тур			
Rp0.2 (MPa) Rm (MPa) A4 (%) Z (%)	260 480 30	410 640 40 55			
Charpy V at 20°C (J) Charpy V at -196°C (J)	80 70	100 80			

### **Comments:**

Interpass temp <100 °C.



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### **ECONOMICS & CURRENT DATA**

Dimension (mm) Current (A)		W	η	N	В	Н	Т	U	Welding	
Ø x Length	Min	Max								<b>Positions</b>
2.5 x 300	50	70	1.9	105	0.63	83	1.0	45	22	1,2,3,4,6
3.2 x 350	70	120	3.7	105	0.63	42	1.6	52	26	1,2,3,4,6
4.0 x 350	120	140	5.6	105	0.63	28	2.4	54	28	1,2,3

**W** = Weight (kg / 100 electrodes)

 $\eta$  = Efficiency (g weld metal x 100 / g core wire)

**N** = Effective value (kg weld metal / kg electrodes)

**B** = Changes (number of electrodes / kg weld metal)

**H** = Deposit rate at 90% of max current (kg weld metal / hour arc time)

**T** = Fusion time at 90% of max current (s / electrode)

**U** = Arc voltage (V)

### **OTHER DATA**

Redrying 200°C, 2h.

### Hardness data:

As welded condition, transverse cross section of an ISO joint, measurements done along a vertical centre line (9 indents), and a horizontal line at top layer (10 indents), 2 samples tested: 121 - 173 HV10, average 150 HV10.