

Product Data Sheet

OK Femax 38.95

E 'Manual metal-arc welding' ESAB Perstorp AB Sweden

Prepared by	Qualified by	Approved by	Reg no	Cancelling	Reg date	Page
P-O Oskarsson	Tero Borg	J-P Ernoult	EN007232	EN006814	2016-05-11	1 (2)

REASON FOR ISSUE

DNV-GL Approval.

GENERAL

High-recovery, iron powder electrode, giving approximately 240% recovery. OK 38.95 gives a welding speed comparable to submerged-arc welding: up to 240g of weld metal /minute with 6.0mm electrode. Primarily designed for welding butt and fillet joints in the flat position where it gives a smooth transition to the base material. For welding of carbon steels, carbon manganese steels and fine-grained carbon manganese steels with elevated yield strength.

Min AC OCV: 65 Polarity: AC, DC+ Alloy Type: Carbon - Manganese Coating Type: Zircon Basic Diff Hydrogen: <8.0 ml/100g

WELDING POSITIONS





CLASSIFICATIONS Electrode	APPROVALS

SFA/AWS A5.1 E7028 ABS 3Y H10
EN ISO 2560-A E 38 4 B 73 H10 BV 3Y H10
DNV-GL 3 YH10
LR 3Ym H10

CHEMICAL COMPOSITION

All Weld Metal (%)

	Min	Max
C Si Mn P S	0.25 0.90	0.10 0.65 1.30 0.03 0.03
Mn P		1.30 0.03

MECHANICAL PROPERTIES OF WELD METAL

	ISO		AWS
Properties	As welded Min	Max	As welded Min
Rp0.2 (MPa) ReL (MPa) Rm (MPa) A4 (%) A5 (%)	380 470 20	600	400 490 22
Charpy V at -20°C (J) Charpy V at -40°C (J)	47		27



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ECONOMICS & CURRENT DATA

Dimension (mm)	Curre	ent (A)	W	η	N	В	Н	Т	U	Welding
Ø x Length	Min	Max		-						Positions
4.0 x 450	170	240	10.1	170	0.67	14.9	3.60	67	35	1,2
5.0 x 450	330	400	21.2	250	0.70	6.6	9.00	63	40	1,2
6.0 x 450	400	520	33.3	270	0.71	4.2	13.30	65	50	1,2

W = Weight (kg / 100 electrodes)

 η = 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)