



Product Data Sheet

PIPEWELD 8010 PLUS

E 'Manual metal-arc welding'
ESAB S.A. Ind. E Comércio Brazil

Prepared by A-C Thorsson	Qualified by P-O Oskarsson	Approved by J-P Ernoult	Reg no EN007586	Cancelling EN007365	Reg date 2017-07-13	Page 1 (2)
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REASON FOR ISSUE

New EN designation.

GENERAL

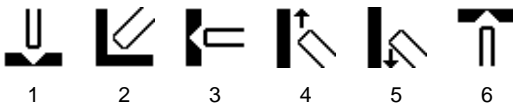
Cellulosic coated electrode designed for low alloy steel. Deep penetration welding in all positions, especially designed for vertical down welding of high strength pipelines. Provides high economic benefits compared to welding vertical up. Recommended for welding pipe-lines of API 5LX: X60- X70.

Polarity: DC+

Alloy Type: Low alloyed (0.3 % Ni, 0.25 % Mo)

Coating Type: Cellulosic covering

WELDING POSITIONS



CLASSIFICATIONS Electrode

SFA/AWS A5.5 E8010-P1
EN ISO 2560-A E 46 2 Z C 21

APPROVALS

FBTS E 8010-P1

CHEMICAL COMPOSITION

All Weld Metal (%)

	Min	Max
C	0.05	0.12
Si	0.05	0.30
Mn	0.40	0.65
P		0.030
S		0.030
Cr		0.05
Ni	0.20	0.60
Mo	0.18	0.40
V		0.05

MECHANICAL PROPERTIES OF WELD METAL

Properties	ISO		AWS	
	As welded Min	Max	As welded Min	Typ
Rp0.2 (MPa)			460	530
ReL (MPa)	460			
Rm (MPa)	530	680	550	620
A4 (%)			19	23
A5 (%)	20			
Charpy V at -20°C (J)	47			
Charpy V at -30°C (J)			27	40



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ECONOMICS & CURRENT DATA

Dimension (mm) Ø x Length	Current (A)		W	η	N	B	H	T	U	Welding Positions
	Min	Max								
3.2 x 350	65	120	2.6	85	0.62	61	0.68	86	30	1,2,3,4,5,6
4.0 x 350	90	180	4	93	0.68	37	1.15	84	29	1,2,3,4,5,6
5.0 x 350	150	240	6.1	92	0.68	24	1.55	97	29	1,2,3,4,5,6

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)