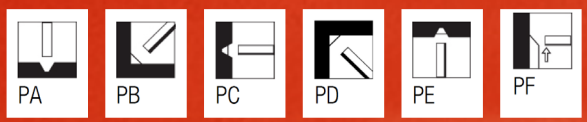
XT-7016

PRODUCT DATA SHEET

MADE IN EUROPE MADE IN

LOW HYDROGEN ELECTRODES

✔ FULL 3.1 CHEMICAL & MECHANICAL CERTIFIED



BETAWELD XT-7016

- Premium basic, twin-coated multi-purpose MMA electrode
- Small, vacuum sealed packs to reduce risk of moisture contamination
- Very good gap bridging
- Excellent welding characteristics and ISO-V toughness to -46°C
- Full 3.1 Chemical & Mechanical Certified

APPLICATIONS

- Pressure vessels
- Joining structural steel
- Performing line repairs
- Single-sided / highly restrained weld joints
- Well suited for root passes and positional welding

CLASSIFICATIONS

EN ISO 2560-A	E 38 3 B 12 H10
AWS A5.1: E7016 H8	E7016

APPROVALS

DNV

WELDING POSITION

All positions

TYPICAL CHEMICAL COMPOSITION OF WELD METAL (VALUES IN %)

C	Mn	Si	P	S
0.06	0.9	0.7	≤ 0.020	≤ 0.015

TYPICAL MECHANICAL PROPERTIES OF WELD METAL

Heat Treatment	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation A5 (%)	Impact Energy ISO - V (J)	
As Welded	≥ 380	470-600	≥ 25	+20 °C ≥ 150	-46 °C ≥ 60

PACK/CARTON SIZING

Diameter	Length	Pack Size	Carton Size	Carton QTY
2.5mm	350mm	2.0kg	12.0kg	6
3.2mm	350mm	1.8kg	10.8kg	6
4.0mm	350mm	2.0kg	12.0kg	6

XT SERIES XTREME WELDING

betaweld® creating better welding solutions

XT SERIES™
XTREME WELDING

PRODUCT DESCRIPTION

BETAWELD XT-7016 is a basic, twin-coated multi-purpose MMA electrode. The twin coating provides excellent welding performance with a stable, directional arc. It offers very good gap-bridging capability and is ideally suited for root passes and positional welding. The glassy slag detaches easily from the finely-rippled weld bead. The electrode delivers excellent welding characteristics and ISO-V notch toughness down to -46 °C.

It is widely used in structural steelwork, industrial fabrication, assembly work, and pipeline construction. Suitable materials include S(P)235, S(P)355, GP240, GP280, L245, and L260 grades. Complete 3.1 Chemical & Mechanical certification guarantees compliance across any site. Certification available online and on-request.

The weld metal is porosity-free, with X-ray quality deposits. Optimum AC weldability requires an OCV > 65V. Its reliable gap-bridging ability, smooth arc control, and easy slag removal make it especially effective for root passes and positional welding.

MATERIALS

S(P)235-S(P)355; GP240-GP280; L245-L360

SIZE & RECOMMENDED CURRENT RANGE (DC+)

Part No.	Diam. (mm)	Length (mm)	Current (A)	Satchel Approx. Weight (kg)	Carton Approx. Weight (kg)
1210-2.0	2.5	350	55-95	2.0	12.0
1211-1.8	3.2	350	80-150	1.8	10.8
212-2.0	4.0	450	120-190	2.0	12.0

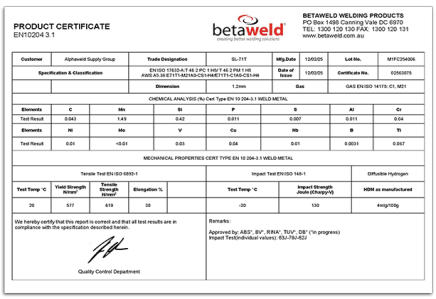
FREQUENTLY ASKED QUESTONS

- **What other electrode types can this electrode replace?** Any E7016 or 16TC's electrode.
- **What certification is available for this product?** Full 3.1 Chemical & Mechanical Certification, DNV approval and batch certificate available online.
- **Why switch to XT-Series Electrodes?** Users of this product consistently report on the noticeable improvement in weld quality after use. Users especially report how smoothly and easily XT-Series Electrodes operate, delivering a more stable arc and better overall performance.

STORAGE

Keep dry and avoid condensation.
HD ≤ 10: Re-dry at 300-350°C for 2 hours, 5 times max.

BATCH CERTIFICATE FINDER


PRODUCT CERTIFICATE
EN10204 3.1

betaweld

BETAWELD WELDING PRODUCTS
PO Box 1486 Canning Vale DC 6970
TEL: 1300 120 130 FAX: 1300 120 131
www.betaweld.com.au

Customer	Alphaweld Supply Group	Trade Designation	SL-71T	Mfg.Date	13/03/25	Lot No.	M1FC254006
Specification & Classification		EN ISO 17632-A T 46 2 PC 1 H5/ T 46 2 PM 1 H5 AWS A5.36 E71T1-M21A0-CS1-H4/E71T1-C1A0-CS1-H4		Date of Issue	13/03/25	Certificate No.	02563075
		Dimension	1.2mm	Gas		GAS EN ISO 14175: C1, M21	

CHEMICAL ANALYSIS (%) Cert Type EN 10 204-3.1 WELD METAL

Elements	C	Mn	Si	P	S	Al	Cr
Test Result	0.043	1.49	0.42	0.011	0.007	0.011	0.04
Elements	Ni	Mo	V	Cu	Nb	B	Ti
Test Result	0.01	<0.01	0.03	0.04	0.01	0.0031	0.057

MECHANICAL PROPERTIES CERT TYPE EN 10 204-3.1 WELD METAL

Tensile Test EN ISO 6892-1					Impact Test EN ISO 148-1		Diffusible Hydrogen
Test Temp °C	Yield Strength N/mm²	Tensile Strength N/mm²	Elongation %		Test Temp °C	Impact Strength Joule (Charpy-V)	HDM as manufactured
20	577	619	30		-20	130	4ml/100g

We hereby certify that this report is correct and that all test results are in compliance with the specification described herein.

Quality Control Department

Remarks:
Approved by: ABS*, BV*, RINA*, TUV*, DB* (*in progress)
Impact Test(individual values): 65J-78J-82J

DID YOU KNOW - Batch Certificates for Betaweld consumable products are readily available online.

To access a batch certificate, visit **alphaweld.com.au/batch-certificates** or **scan the QR code** to locate the certificate you need.

Batch Certificate Number: PN-2150A BN-M1FC254006 Search