

# Inspection Certificate 3.1



Product	<b>KRYO 1</b>	Customer ref.	<b>7605479</b>
Size(s) mm	<b>2,5 X 350</b>	Our reference:	<b>SD750664</b>
Item No.	<b>524383</b>	Quantity	<b>107,0 PK</b>
Lot/batch	<b>O26124148</b>	Customer	<b>AIR LIQUIDE CANADA INC.</b>
Product Line	<b>Electrodes</b>		<b>52 Dundee Avenue,</b>
			<b>Donovan's Industrial Park</b>
			<b>A1N 4R7 New Foundland</b>
			<b>CANADA</b>
Classification	<b>AWS A5.5 : E7018-G-H4R</b>		
	<b>ISO 2560-A : E 50 6 Mn1Ni B32 H5</b>		

Chemical analysis (%)										According to EN10204:2004 3.1			
C	Si	Mn	P	S	Cr	Ni	Mo	Nb		Cu	V	Ti	Al
0,06	0,47	1,57	0,01	0,01	0,1	1,0	0,02	0,01		0,0	0,01	0,01	0,01
B	As	Sn	Pb	N									
0,000	0,00	0,00	0,00	0,012									

Mechanical tests, all weld metal					Impact testing				According to EN10204:2004 2.2	
Tensile testing										
Cond.	Temp. °C	ReL N/mm2	Rm N/mm2	A5 %	Cond.	Temp.1 °C	Av1 J			
AW	RT	577	646	26	AW	-60	116			

Additional information According to EN10204:2004

Other tests

Remarks

Material packed in Sahara Ready Pack

The product identified above has been manufactured, tested and supplied in compliance with a certified ISO 9001 Quality Assurance Programme.

<b>Company</b> Lincoln Smitweld B.V. Registered office: P.O. Box 253, 6500 AG Nieuwe Dukenburgseweg 20 6534 AD NIJMEGEN NETHERLANDS		<b>Printed by</b> P. van Etteger Telephone: +31 24 3522911	<b>Function</b> QS Manager Fax: +31 24 3522200	<b>Date</b> 05/10/2012	<b>Cert. No.</b> 98565420
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voestalpine Böhler Welding

voestalpine Bohler Welding Canada Ltd.

1555 Bonhill Road, Unit 11, Mississauga, ON L5T 1Y5  
Tel: +1 905-584-0589  
Fax: +1 905-584-2027

Website www.voestalpine.com/welding

AIR LIQUIDE CANADA

1250, RENE LEVESQUE OUEST, #1700  
H3B 5E6 MONTREAL  
Canada

**Inspection certificate 3.1**

as per : EN 10204  
No. : 2015-2028033231-900001-014  
Rev. 0 Page 1 of 1

PO no.	1310751	of	01.06.2015
Order no.	1028024171		
Delivery note/pos./splitt	2028033231/000010/900001	of	19.08.2015
Product	GTAW rod/wire		237796
Trade name	UTP A 6222 MO		85871
Standard designation	EN ISO 18274: S Ni 6625 (NiCr22Mo9Nb)		1N66250W
	AWS A5.14: ERNiCrMo-3		0280
Dimension	3,2 x 500 mm		
Heat no.	102091		
Quantity	888,0 KG		

**Chemical composition in % of the product**

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	Al	Nb	Fe	Ta
< 0,01	0,24	0,01	0,003	0,001	22,03	8,74	64,8	0,02	0,19	0,14	3,47	0,35	0,004

**Mechanical properties**

Tensile test							
T	ReL / Rp 0,2 MPa	Rp 1,0 MPa	Rm MPa	A (Lo = 5d) %	Z %	WBH PWHT	Remarks
20°C	≥ 460	≥ 500	≥ 740	≥ 35			
Impact test							
T	Impact energy KV / J	Average KV / J	Lateral expansion mm	Shear fracture %	WBH PWHT	Remarks	
-196°C	≥ 100						
20°C	≥ 120						

Town  
Mississauga, Ontario

Date  
26.08.2015

This certificate was issued by DP-equipment and does not require signature.

Authorized representative

# Inspection Certificate 3.1



Product	<b>AROSTA 309S</b>	Customer ref.	<b>7988650</b>
Size(s) mm	<b>3,2 X 350</b>	Our reference:	<b>SD809815</b>
Item No.	<b>528367</b>	Quantity	<b>42,0 PK</b>
Lot/batch	<b>O26136424</b>	Customer	<b>Lincoln Electric Canada Ltd 255 WICKSTEED AVENUE M4H 1G8 TORONTO, ONTARIO CANADA</b>
Product Line	<b>Electrodes</b>		
Classification	<b>AWS A5.4 : E309L-16 ISO 3581-A : E 23 12 L R 32</b>		

Chemical analysis (%)											According to EN10204:2004 3.1	
C	Si	Mn	P	S	Cr	Ni	Mo	Nb	Cu	V		
<b>0,02</b>	<b>0,73</b>	<b>0,7</b>	<b>0,018</b>	<b>0,014</b>	<b>23,3</b>	<b>12,7</b>	<b>0,03</b>	<b>0,0</b>	<b>0,03</b>	<b>0,0</b>		

Mechanical tests, all weld metal										According to EN10204:2004 2.2	
Tensile testing					Impact testing						
Cond.	Temp. °C	Rp0.2 N/mm2	Rm N/mm2	A5 %	Cond.	Temp.1 °C	Av1 J				
<b>AW</b>	<b>RT</b>	<b>491</b>	<b>584</b>	<b>33</b>	<b>AW</b>	<b>-20</b>	<b>47</b>				

Additional information According to EN10204:2004 3.1  
Other tests

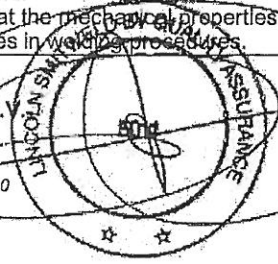
Ferrite determination FN Magne Gage  
19

Remarks

Material packed in Sahara Ready Pack

The product identified above has been manufactured, tested and supplied in compliance with a certified ISO 9001 Quality Assurance Programme.  
It should be noted that the mechanical properties of all weld metal specimens could vary from those obtained in production joints because of differences in welding procedures.

Company	Lincoln Smitweld B.V.	Printed by	P. van Etteger	Function	QS Manager	Date	05/03/2014	Cert. No.	98637953
Registered office:	P.O. Box 283, 6500 AG Nieuwe Dukenburgseweg 20 6534 AD NIJMEGEN NETHERLANDS	Telephone:	+31 24 3522911	Fax:	+31 24 3522200				



certificate V10.0

# Inspection Certificate 3.1



Product	<b>AROSTA 316L</b>	Customer ref.	<b>7988650</b>
Size(s) mm	<b>2,5 X 350</b>	Our reference:	<b>SD809815</b>
Item No.	<b>530001</b>	Quantity	<b>44,0 PK</b>
Lot/batch	<b>O26142118</b>	Customer	<b>Lincoln Electric Canada Ltd 255 WICKSTEED AVENUE M4H 1G8 TORONTO, ONTARIO CANADA</b>
Product Line	<b>Electrodes</b>		
Classification	<b>AWS A5.4 : E316L-16 ISO 3581-A : E 19 12 3 L R 12</b>		

Chemical analysis (%)											According to EN10204:2004	3.1
C	Si	Mn	P	S	Cr	Ni	Mo	Nb	Cu	V		
<b>0,026</b>	<b>0,76</b>	<b>0,7</b>	<b>0,021</b>	<b>0,014</b>	<b>18,1</b>	<b>11,2</b>	<b>2,7</b>	<b>0,0</b>	<b>0,12</b>	<b>0,0</b>		

Mechanical tests, all weld metal											According to EN10204:2004	2.2	
Tensile testing						Impact testing							
Cond.	Temp.	Rp0.2	Rm	A5		Cond.	Temp.1	Av1	Temp.2	Av2			
	°C	N/mm2	N/mm2	%			°C	J	°C	J			
<b>AW</b>	<b>RT</b>	<b>497</b>	<b>600</b>	<b>35</b>		<b>AW</b>	<b>-20</b>	<b>52</b>	<b>-120</b>	<b>31</b>			

Additional information According to EN10204:2004 3.1  
Other tests

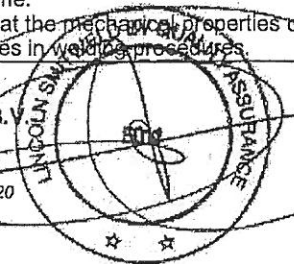
Ferrite determination FN WRC92  
**8**

Remarks

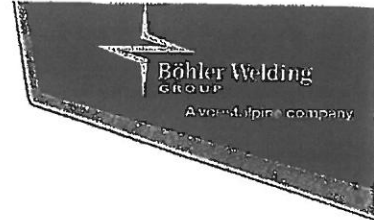
Material packed in Sahara Ready Pack

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Company	Printed by	Function	Date	Cert. No.
<b>Lincoln Smitweld B.V.</b>	<b>P. van Etteger</b>	<b>QS Manager</b>	<b>05/03/2014</b>	<b>98637952</b>
Registered office:	Telephone:	Fax:		
<b>P.O. Box 253, 6500 AG</b>	<b>+31 24 3522911</b>	<b>+31 24 3522200</b>		
<b>Nieuwe Dukenburgseweg 20</b>				
<b>6534 AD NIJMEGEN</b>				
<b>NETHERLANDS</b>				







BOHLER Welding Group, Canada  
LTD  
Bonhill Road Unit #7 1555  
L5T 1Y5 Mississauga  
Canada

**Inspection certificate 3.1**

as per : EN 10204  
No. : 2013-2004184372-000010-023  
Rev. 0 Page 1 of 1

PO no.	4280002621/AIR (Hebron)	of	31.01.2013
Order no.	1004131725		
Delivery note/pos./splitt	2004184372/000000/000010	of	09.04.2013
Product	GTAW rod/wire		300002
Trade name	UTP A 6222 Mo		34712
Standard designation	EN ISO 18274: S Ni 6625 (NiCr22Mo9Nb)		1186250W
	AWS A5.14: ERNiCrMo-3		0045
Dimension	2,0 x 500 mm		
Heat no.	100594		
Quantity	375,0 KG		

Chemical composition in % of the hot rolled wire

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	Al	Nb	Fe		
0,02	0,07	0,04	0,005	0,001	22,31	8,52	64,6	0,02	0,17	0,09	3,47	0,50		

Mechanical properties EN 10204 - 2.2

Tensile test							
T	ReL / Rp 0,2 MPa	Rp 1,0 MPa	Rm MPa	A (Lo = 5d) %	Z %	WBH PWHT	Remarks
20°C	≥ 460	≥ 500	≥ 740	≥ 35			
Impact test							
T	Impact energy KV / J	Average KV / J	Lateral expansion mm	Shear fracture %	WBH PWHT	Remarks	
-196°C	≥ 100						
20°C	≥ 120						

This certificate was issued by DP-equipment and does not require signature.

Town  
Bad Krozingen

Date  
09.04.2013

Authorized representative  
Kröschel

UTP Schweissmaterial, Zweigniederlassung der Böhler Schweisstechnik Deutschland GmbH

FULFILLING HIGH DEMANDS

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IBAN DE91 6807 0030 0055 5110 00




HEBRON PROJECT  
FEED+EPC Gravity-Based Structure A2283338



Kiewit-Kvaerner Contractors (KKC)  
240 Waterford Bridge Road, St. John's, NL A1E 1E2



**WELDING CONSUMABLES SHIPPING RELEASE**

Supplier:	Air liquide Canada
Brand name:	UTP A6222 Mo/ER Nicrmo-3 2.0mm
Data sheet no.:	UTP A6222 Mo Rev 10
Batch no.:	100594
3.1 Certificate no.	2013-2004184372-000010-023
Quantity	375 kg
Release date:	May 01, 2013
<b>Accepted</b> Sign:  Date: <u>May 01/13</u>	<b>Not Accepted</b> Sign: _____ Date: _____
<b>Comments:</b>	

# Inspection Certificate 3.1



Product	LNT Ni1	Customer ref.	7602800
Size(s) mm	2,4 X 1000	Our reference:	SD750742
Item No.	605129	Quantity	200,0 KG
Lot/batch	330893	Customer	AIR LIQUIDE CANADA INC. 52 Dundee Avenue, Donovan's Industrial Park A1N 4R7 New Foundland CANADA
Product Line	TIG Wire		
Classification	AWS A5.28 : ER80S-Ni1 EN ISO 636 : W 42 6 W3Ni1		

Chemical analysis (%)										According to EN10204:2004 3.1		
C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti+Zr	Al	
0,10	0,69	1,12	0,013	0,012	0,07	0,89	0,01	0,10	0,00	0,00	0,00	

Mechanical tests, all weld metal						Impact testing			According to EN10204:2004 2.2	
Tensile testing						Cond.		Temp.1	Av1	
Cond.	Temp. °C	Rp0.2 N/mm2	Rm N/mm2	A5 %				°C	J	
AW	RT	479	582	30		AW		-60	176	

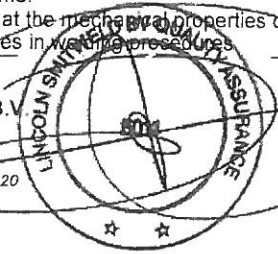
Additional information According to EN10204:2004

Other tests

Remarks

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Company	Lincoln Smitweld B.V.	Printed by	P. van Etteger	Function	QS Manager	Date	05/10/2012	Cert. No.	98565421
Registered office:	P.O. Box 253, 6500 AG Nieuwe Dukenburgseweg 20 6534 AD NIJMEGEN NETHERLANDS	Telephone:	+31 24 3522911	Fax:	+31 24 3522200				





# Inspection Certificate 3.1



Product	KRYO 1	Customer ref.	7661242
Size(s) mm	2,5 X 350	Our reference:	SD760833
Item No.	515701	Quantity	13,0 PK
Lot/batch	026124860	Customer	Lincoln Electric Canada Ltd 255 WICKSTEED AVENUE M4H 1G8 TORONTO, ONTARIO CANADA
Product Line	Electrodes		
Classification	AWS A5.5 : E7018-G-H4R ISO 2560-A : E 50 6 Mn1Ni B32 H5		

Chemical analysis (%)													According to EN10204:2004	3.1	
C	Si	Mn	P	S	Cr	Ni	Mo	Nb	Cu	V	Ti	Al			
0,06	0,37	1,43	0,01	0,01	0,0	0,9	0,02	0,00	0,0	0,01	0,01	0,01			
B	As	Sn	Pb	N											
0,000	0,00	0,00	0,00	0,011											

Mechanical tests, all weld metal					According to EN10204:2004				2.2
Tensile testing					Impact testing				
Cond.	Temp. °C	ReL N/mm2	Rm N/mm2	A5 %	Cond.	Temp.1 °C	Av1 J		
AW	RT	577	646	26	AW	-60	116		

Additional information According to EN10204:2004  
Other tests

Remarks  
Material packed in Sahara Ready Pack

The product identified above has been manufactured, tested and supplied in compliance with a certified ISO 9001 Quality Assurance Programme.  
It should be noted that the mechanical properties of all weld metal specimens could vary from those obtained in production joints because of differences in welding procedures.

Company	Lincoln Smitweld B.V.	Printed by	P. van Etteger	Function	QS Manager	Date	04/02/2013	Cert. No.	98581569
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