

A31

Certificate of Analysis

EPA Protocol

Performed according to EPA-600/R-97/121, Procedure G1

Notice: This Cylinder is not to be used when pressure is under 150 psig. Produced for customer:

Manufactured and certified at:

Linde Gas LLC

Maumee Specialty Gas Plant 6421 Monclova Road

MAUMEE OH 43537

419-893-7226

LINDE SANFORD INTERBRANCH

103 COMMERCE WAY SANFORD FL 32771

USA

407-321-4030

Material:

EPA NO/N2 2-49 PPM

Production #:

Lot #:

Cylinder #: **Expiration Date:**

Shelf Life:

6232

100099224 02499D5070SI

CC167417 4/20/2007

24 months

Blend Tolerance:

Blend Type:

Cyl. Pressure:

Balance Gas:

CGA:

Analytical Accuracy:

Confidence:

5 % Relative

EPA Protocol 2000 psig

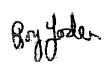
Nitrogen

1.00 % Relative

95 %

Shell Life.					
CAS.7	Certified Compose Nitric Oxide	SM CORE	pustof cut-alter 5 to 13.5	Concentration and Lines Chicky. 11.8 +/- 0.1 ppm Balance	Page of Cardification 04/20/2005 04/20/2005
10102-43-9 7727-37-9	Nitrogen Analyzed (For Re	g (jak Christ)		Concentration 11.8 ppm	Analysis Date 04/20/2005
N/A CAS#	NOx Bufference Stands Nitric Oxide	F. C.		Concentration 14.72 ppm	11/14/2005 Callbratten, Date
10102-43-9 Instrument Thermo Nic		Sector # AET0100218		Analytical Principle FTIR	02/16/2005

All analyses are performed under controlled environmental conditions. This product is manufactured using equipment which has been calibrated with MIST traceable, or equivalent, standards, weights, or equipment.







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MAUMEE OH 43537

419-893-7226

Produced for customer:

LINDE SANFORD INTERBRANCH

5 % Relative

EPA Protocol

2000 psig

Nitrogen

660

103 COMMERCE WAY SANFORD FL 32771

USA

407-321-4030

6232 Material:

EPA NO/N2 2-49 PPM

100099225 Production #:

Lot #: Cylinder #:

CC34492

Expiration Date: Shelf Life:

A31

02499D5070SF

4/19/2007 24 months Blend Tolerance:

Blend Type: Cyl. Pressure:

Balance Gas:

CGA:

Analytical Accuracy:

1.00 % Relative Confidence:

95 %

10102-43-9 Nitric	***	22.5 21.3 +	tauts /- 0.2 ppm 04/19/2005 alance 04/19/2005	
EAS / Analy N/A NOx	of Par Ratts Bus	2	1.3 ppm 04/19/2005 Screen Date:	
EAS / Kafeo 10102-43-9 Nitric fustrument Horiba CLA-510SS	Oxide CC41909 CC41909 568093024	, GMIS 49.1	8 ppm 05/21/2006 Scence 02/17/2005	

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MAUMEE OH 43537

419-893-7226

Produced for customer:

LINDE SANFORD INTERBRANCH

103 COMMERCE WAY

SANFORD FL 32771

USA

407-321-4030

Material:

2179

MISC 3 COMPONENT EPA

Production #: Lot #:

100099226

02499D5070MJ

Cylinder #:

CC35095

Expiration Date:

4/12/2008

Shelf Life:

Rosemount 755R

A31

1000559

36 months

Blend Tolerance:

Blend Type:

Cyl. Pressure:

Relence Gas: CGA:

Analytical Accuracy:

Confidence:

1 % Relative

EPA Protocol

2000 psig Nitrogen

590

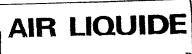
1.00 % Relative

7782-44-7 124-38-9 7727-37-9	Oxygen Carbon Dioxide Nitrogen	10 to 15 8 to 12	12.5 +/- 0.10 % 9.94 +/- 0.10 % Balance	04/12/2005 04/12/2005 04/12/2005 04/12/2005
124-38-9 7782-44-7	Carbon Dioxide Oxygen	CC59170 , NTRM CC73608 , NTRM	13.78 % 14.84 %	10/02/2008 10/02/2008
ing supposi Horiba VIA			Non-Dispersive Infrared Paramagnetic	02/14/2005 02/17/2005

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CERTIFICATION OF ANALYSIS

			locol Gases	Centresties	ASSAY	
amber: 9561	Cyl. Pressure:* 2000PSIG	Lot Number: SFS52435 Document Number:	Carbon Dioxide	Concentration 16-20 %	18.1 : 22.5	0.2 % 0.3 %
Dete: 13	Expiration Date: 02/20/06	11354037	Oxygen Nitrogen	22.5 % Balance	Balance	-
ner: QUIDE NDO, FL	P.O. Number: STOCK	Hara Number:				
is valid only to	150 palg	and the second s		85.	a Exp.Date	Sample No Type
otogol 1 No. 2.2, Proce	dure : C-1	Concestivation 22.06 ± 9.21	% Carbon Dioxida Nitro	on CC-55366 8274	5x 10/02/03	95060107 NTRM 96060615 NTRM
	Eic Berron Thuan Tran	22.41 ± 0.16	A			
red by:	Carbon Dioxide	GUS ARMY TE	Carrier (Carrier Carrier Carri			
AS ANALYZER!	EMPLOYED Houlet Packard	Menufacturer.	Hewlett Packard 5890A			
Number:	5890A 3336A54620	Model Number: Serial Number:	3336A54620			
lumber: est Calibrated:	01/24/03	MPR Last Calibrated: Analytical Principle:	02/12/93 FID & TCD		والمدار والماري والماري والمراوي	

ANAL	YSIS SUM	MARY		,
02/20/03 Time 1	02/20/03 Tited 2	()2/2/0/03 Tylaid		9
Zero. 0 Reference 1296106 Cardidate 1962536 Result 18.08	0 1298608 1083033 18.08 VALID TICAL RESULT	0 1296563 1063144 18.09 VALID	18.00	
02/20/03	02/20/03 Tried 2		Oxygen Units	
Zaro 0 Reference 1062146 Candidate 1084073 Result 22.45	0 1080467 1084989 22.51 VALID	0 1063120 1066159 22.47 VALID	Area %	
Evaluation VALID MEAN ANALY			22.48	%

	Approximation 1
St Chron	Musintro
- 1 6 W 1100	





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419-893-7226

Produced for customer:

LINDE SANFORD INTERBRANCH

103 COMMERCE WAY SANFORD FL 32771

USA

407-321-4030

6132 Material:

EPA CO/N2 3-9.9 PPM

Production #:

100091537

Lot #:

02499L4130ZA

Cylinder #: **Expiration Date:**

11/24/2007

Shelf Life:

CC3813

36 months

Blend Tolerance:

Blend Type: Cyl. Pressure:

Balance Gas:

CGA:

Analytical Accuracy:

Confidence:

5 % Relative

EPA Protocol

2000 psig

Nitrogen

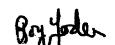
350

1.00 % Relative

95 %

630-08-0	Carbon Monoxide Nitrogen	Constant Constant	6		6.35	+/- 0.06 ppm Balance	Bute of Certification 11/24/2004 11/24/2004
7727-37-9 	Carbon Monoxide	FF20036	, SRM	1677C		9.98 ppm	02/03/2009
ibarroment Thermo Nic	olet AEM	AET0100218		FI	R		09/17/2004

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MAUMEE OH 43537

Produced for customer:

LINDE SANFORD INTERBRANCH

103 COMMERCE WAY SANFORD FL 32771

USA

407-321-4030

Blend Tolerance:

Blend Type:

Cyl. Pressure:

Ralance Gas:

419-893-7226

Material: EPA CO/N2 10-99 PPM

100085825

6154

Production #: Lot #:

02499F4180YG

Cylinder #:

CC185142

7/6/2007 Expiration Date: 36 months

Shelf Life:

A31

Confidence:

5 % Relative

EPA Protocol 2000 psig

Nitrogen 350

CGA: 1.00 % Relative Analytical Accuracy:

95 %

630-08-0 Carbon Monoxide 12 Balance 07/06/20 7727-37-9 Nitrogen				Carlos Carlos Carlos Carlos Carlos
C20.08.0 Carbon Monoxide FF20036 , SRM 1677C 9.98 ppm 02/03/2	12			0.12 ppm 07/06/2004
can no no Cortion Monoxide FP20030 , SRM 107/C 9,500 PP	(7.22.2.2)		5	Marin Date
630-08-0 Carbon Monoxide FF30374 , SRM 2635A 24.08 ppm 02/03/2		Carbon Monoxide Carbon Monoxide	OH MICHARICE	 , p

Thermo Nicolet AEM

AET0100218

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