

Índice

Ar

Argon 99.99%

Ar

Argon 99.999% Alta Pureza

Mezcla

Argon 75% + CO₂ 25%

CO₂

Dioxido de Carbono

He

Helio 99.99%

N

Nitrógeno 99.90%

EMPRESAS CARBONE S.A.

Calle 5ta, Rio Abajo, Galera Empresas Carbone, Ciudad de Panama, Panama

Ar Analysis Certificate

Sample Name: 99.99% ARGON

Packing: 40L cylinder

Weight: 9.2 KGS

Certificate No: HA20160928-QCHANAC09

Checked by:

QC12

Audited by:

Victor

DATE: 2016-9-28

Description of Goods: 40L 99.99% ARGON

Report Date: 2016.9.28

Quantity: 480 PCS

Batch No.: HA20160928A3

Test Standard: GB/T 4842-2006

Testing Items	Index	Inspect Result	Inspect Conclusion
Argon (Ar) 10 ⁻²	≥99.99	≥99.99	Qualified
Oxygen(O2)	≤10 ppmv	7.0 ppmv	Qualified!
Nitrogen (N2)	≤50.0 ppmv	32.0 ppmv	Qualified!
Hydrogen (H2)	≤5.0 ppmv	4.2 ppmv	Qualified!
CH4	≤5.0 ppmv	4.0 ppmv	Qualified
CO	≤5.0 ppmv	4.0 ppmv	Qualified
CO2	≤10.0 ppmv	5.2 ppmv	Qualified
H2O	≤15.0 ppmv	10.1 ppmv	Qualified
General Conclusion:	According to GB/T 4842-2006 standard, these argon gas are qualified to export.		

Description of Goods: 10L 99.99% ARGON

Report Date: 2016.9.28

Quantity: 156 PCS

Batch No.: HA20160928A4

Test Standard: GB/T 4842-2006

Testing Items	Index	Inspect Result	Inspect Conclusion
Argon (Ar) 10 ⁻²	≥99.99	≥99.99	Qualified
Oxygen(O2)	≤10 ppmv	6.8 ppmv	Qualified!
Nitrogen (N2)	≤50.0 ppmv	30.0 ppmv	Qualified!
Hydrogen (H2)	≤5.0 ppmv	4.1 ppmv	Qualified!
CH4	≤5.0 ppmv	3.9 ppmv	Qualified
CO	≤5.0 ppmv	4.0 ppmv	Qualified
CO2	≤10.0 ppmv	5.1 ppmv	Qualified
H2O	≤15.0 ppmv	10.0 ppmv	Qualified
General Conclusion:	According to GB/T 4842-2006 standard, these argon gas are qualified to export.		

Description of Goods: 16L 99.99% ARGON

Report Date: 2016.9.28

Quantity: 156 PCS

Batch No.: HA20160928A5

Test Standard: GB/T 4842-2006

Testing Items	Index	Inspect Result	Inspect Conclusion
Argon (Ar) 10 ⁻²	≥99.99	≥99.99	Qualified
Oxygen(O2)	≤10 ppmv	6.9 ppmv	Qualified!
Nitrogen (N2)	≤50.0 ppmv	31.0 ppmv	Qualified!
Hydrogen (H2)	≤5.0 ppmv	4.0 ppmv	Qualified!
CH4	≤5.0 ppmv	3.9 ppmv	Qualified
CO	≤5.0 ppmv	4.0 ppmv	Qualified
CO2	≤10.0 ppmv	5.2 ppmv	Qualified
H2O	≤15.0 ppmv	9.9 ppmv	Qualified
General Conclusion:	According to GB/T 4842-2006 standard, these argon gas are qualified to export.		

EMPRESAS CARBONE S.A.

Calle 5ta, Rio Abajo, Galera Empresas Carbone, Ciudad de Panama, Panama

Ar Analysis Certificate

Sample Name: 99.999% ARGON

Packing: 40L cylinder

Weight: 9.5 KGS

Certificate No: HA20161222-QCHANAC118

Checked by:

QC12

Audited by:

Victor

DATE: 2016-12-22

Consignee: EMPRESAS CARBONE S.A.

Calle 5ta Rio Abajo. Edif.Carbone. Panamá. República de Panamá

Description of Goods: 40L 99.999% ARGON

Report Date: 2016.12.22

Quantity: 23 PCS

Batch No.: HA20161220A1

Test Standard: GB/T 4842-2006

Testing Items	Index	Inspect Result	Inspect Conclusion
Argon (Ar) 10 ⁻²	≥99.999	≥99.999	Qualified
Oxygen(O2)	≤1.5 ppmv	1.0 ppmv	Qualified
Nitrogen (N2)	≤4 ppmv	3.0 ppmv	Qualified
Hydrogen (H2)	≤0.5 ppmv	0.4 ppmv	Qualified
CH4 +CO+CO2	≤1.0 ppmv	0.6 ppmv	Qualified
H2O	≤3.0 ppmv	2.5 ppmv	Qualified
General Conclusion:	According to GB/T 4842-2006 standard, these argon gas are qualified to export.		

EMPRESAS CARBONE S.A.

Calle 5ta, Rio Abajo, Galera Empresas Carbone, Ciudad de Panama, Panama

Mixed Ar Analysis Certificate

Sample Name: MIXED ARGON

Packing: 40L cylinder

Weight: 9.2 KGS

Certificate No: HA20160928-QCHANAC10

Checked by:

QC12

Audited by:

Victor

DATE: 2016-9-28

Consignee: EMPRESAS CARBONE S.A.

Calle 5ta Rio Abajo. Edif.Carbone. Panamá. República de Panamá

Description of Goods: MIXED- ARGON

Report Date: 2016.9.28

Quantity: 35 PCS

Batch No.: HA20160928A6

Test Standard: GB/T 4842-2006

Testing Items	Index	Inspect Result	Inspect Conclusion
Argon (Ar)		Balance	Qualified
Carbon Dioxide (CO2)	20%	20%	Qualified
General Conclusion:	According to GB/T 4842-2006 standard, these MIXED argon gas are qualified to export.		

EMPRESAS CARBONE S.A.

Calle 5ta, Rio Abajo, Galera Empresas Carbone, Ciudad de Panama, Panama

CO2 Analysis Certificate

Sample Name: 99.9% CO2

Packing: 40L cylinder

Weight: 20 KGS

Certificate No: HA20160928-QCHANAC11

Checked by:

QC12

Audited by:

Victor

DATE: 2016-9-28

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R.U.C. 1080323-1-554308 D.V. 39

Consignee: EMPRESAS CARBONE S.A.

Calle 5ta Rio Abajo. Edif.Carbhone. Panamá. República de Panamá

Description of Goods: 40L 99.9% CO2

Report Date: 2016.9.28

Quantity: 350 PCS

Batch No.: HA20160928A7

Test Standard: GB 10621-2006

Testing Items	Index	Inspect Result	Inspect Conclusion
Carbon Dioxide(CO2) %	≥ 99.9	≥ 99.9	Qualified
Moisture	≤ 20 ppm	15 ppm	Qualified
NO+NO2	≤ 5ppm	4.0 ppm	Qualified
SO2	≤ 1ppm	0.8 ppm	Qualified
CH4	≤ 50ppm	45 ppm	Qualified
Total Sulfur (except SO2)	≤ 0.1ppm	0.06 ppm	Qualified
Methanol	≤ 10ppm	6.8 ppm	Qualified
Ethanol	≤ 10ppm	7.5 ppm	Qualified
Oil	≤ 5ppm	4.0 ppm	Qualified
O2	≤ 30ppm	20.0 ppm	Qualified
CO	≤ 10ppm	7.6 ppm	Qualified
General Conclusion:	According to GB10621-2006 standard, these CO2 are qualified to export.		

EMPRESAS CARBONE S.A.

Calle 5ta, Rio Abajo, Galera Empresas Carbone, Ciudad de Panama, Panama

Helium Analysis Certificate

Sample Name: 99.99% Helium

Packing: 40L cylinder

Weight: 1.0 KGS

Certificate No: HA20160928-QCHANAC12

Checked by:

QC12

Audited by:

Victor

DATE: 2016-9-28

Consignee: EMPRESAS CARBONE S.A.

Calle 5ta Rio Abajo. Edif. Carbone. Panamá. República de Panamá

Description of Goods: 40L 99.99% Helium

Report Date: 2016.9.28

Quantity: 25 PCS

Batch No.: HA20160928A8

Test Standard: GB / T 4844.3—1995

Testing Items	Index	Inspect Result	Inspect Conclusion
Helium (He) 10^{-2}	≥ 99.99	≥ 99.99	Qualified
Oxygen (O ₂)	≤ 5 ppmv	3.5 ppmv	Qualified
Nitrogen (N ₂)	≤ 25 ppmv	6.6 ppmv	Qualified
Hydrogen (H ₂)	≤ 7.0 ppmv	2.1 ppmv	Qualified
CH ₄	≤ 1 ppmv	0.4 ppmv	Qualified
CO	≤ 1.0 ppmv	0.1 ppmv	Qualified
CO ₂	≤ 1.0 ppmv	0.1 ppmv	Qualified
H ₂ O	≤ 20.0 ppmv	5.8 ppmv	Qualified
General Conclusion:	According to GB / T 4844.3—1995 standard, these Helium gas are qualified to export.		

EMPRESAS CARBONE S.A.

Calle 5ta, Rio Abajo, Galera Empresas Carbone, Ciudad de Panama, Panama

N2 Analysis Certificate

Sample Name: 99.9% NITROGEN GAS (Industrial Grade)

Packing: 40L cylinder

Weight: 6.6 KGS

Certificate No: HA20161220-QCHANAC098

Checked by:

QC12

Audited by:

Victor

DATE: 2016-12-20

Consignee: EMPRESAS CARBONE S.A.

Calle 5ta Rio Abajo. Edif.Carbone. Panamá. República de Panamá

Description of Goods: 16L 99.9% Nitrogen

Report Date: 2016.12.20

Quantity: 39 PCS

Batch No.: HA20161219A11

Test Standard: GB/T 3864-2008

Testing Items	Index	Inspect Result	Inspect Conclusion
Nitrogen (N2) 10 ⁻²	≥99.2	≥99.9	Qualified
Oxygen(O2) 10 ⁻²	≤0.8 ppmv	0.1	Qualified
General Conclusion:	According to GB/T 3864-2008 standard, these nitrogen gas are qualified to export.		