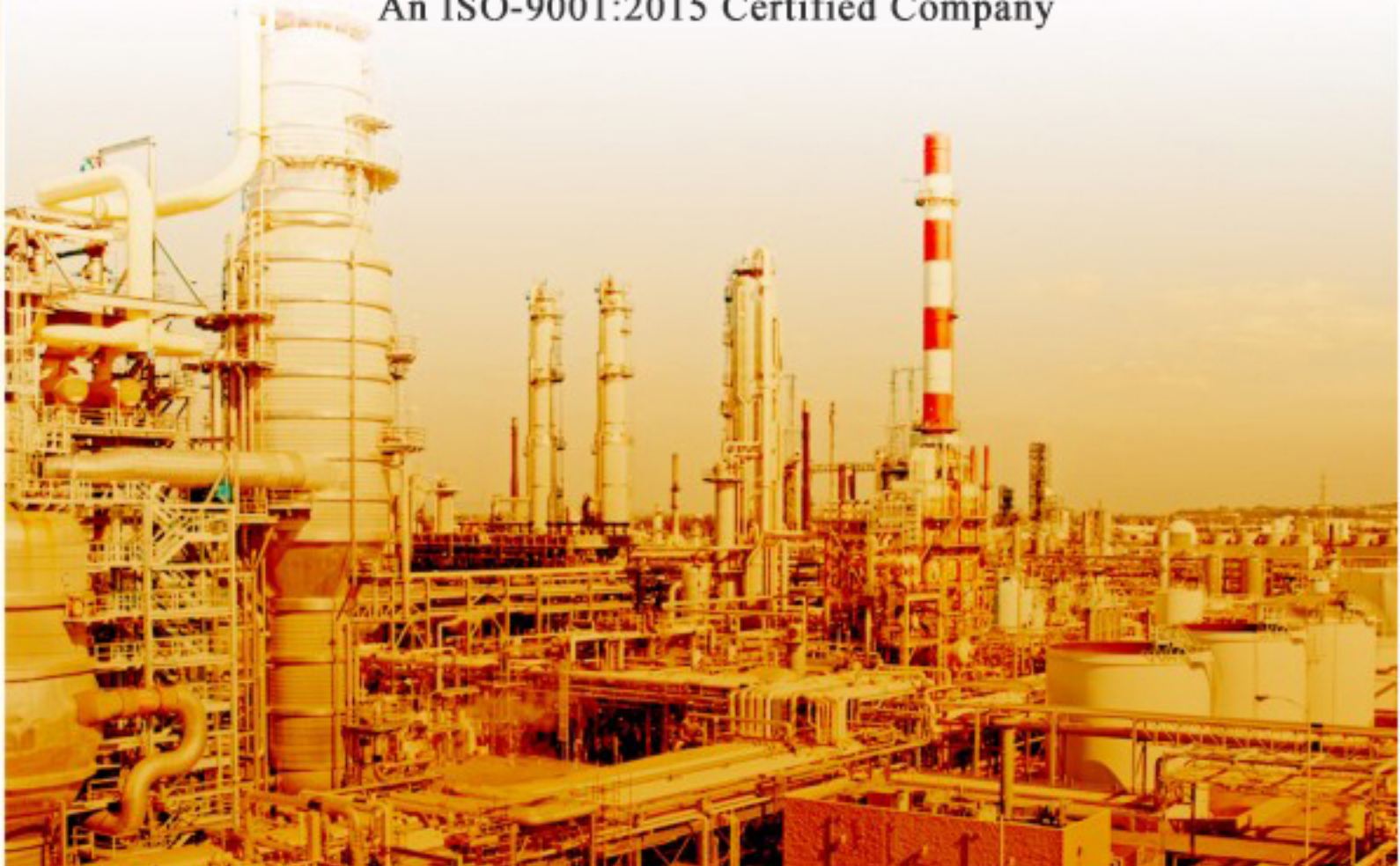




UNIVERSAL WELDING & ENGINEERING COMPANY

An ISO-9001:2015 Certified Company



- PURE GASES
- PURE BULK GASES
- REFRIGERATION GASES
- RARE HYDROCARBON GASES & LIQUIDS
- GAS HANDLING SYSTEMS
- GAS REGULATORS
- CALIBRATION MIXTURES
UHP GRADE MIXTURES
LIQUID MIXTURES
- ANALYTICAL SERVICES
ANALYSIS & CERTIFICATION

ABOUT US

Universal Welding & Engineering Company started operations in the gas Industry in 1962 with a Indian Oxygen (Now Known as BOC India Ltd) dealership. Back then there were mainly two products Oxygen & Acetylene gas. Since then we have added over 20 products to our Inventory and keep expanding everyday.

We have a strong and robust infrastructure laid in place for the distribution of these products with personnel who are well versed and have accurate knowledge about gases. Most of our present employees are with us for the past 30 odd years and continue to be with us. The present sales of our company is \$ 0.5 million and we look towards increasing this to \$ 1.2 million within the next 2 years.

BULK PURE GASES

Liquid Argon in bulk 1000 kL to 20,000 kL
Liquid Nitrogen in bulk 1000 kL to 20,000 kL



GASES IN CYLINDERS

Argon N5.0 Grade
Nitrogen N5.0 Grade
Oxygen N5.0 Grade
Helium N5.0 Grade
Hydrogen N5.0 Grade

Nitrogen N4.5 Grade
Argon N4.5 Grade
Helium N4.5 Grade

Zero Air
Nitrous oxide
Acetylene
Carbon Dioxide

Argon commercial Grade Nitrogen commercial Grade Oxygen commercial Grade
Hydrogen commercial Grade



SPECIAL N6.0 GRADE GASES IN 47/50 LTR CYLN

HYDROGEN, ARGON, NITROGEN AND AIR

All the gases are available in various cylinder Sizes i.e 0.5 ltrs, 3ltrs, 10 ltrs, 47 ltrs, 50 ltrs
Pressure Up to 140 to 200 bar

RARE HYDROCARBON GASES IN BULK OR IN SMALL PACKAGE

Cis 2 Butene	Trans 2 Butene	1-Pentene	Methyl Acetylene
3 Methyl Pentane	2 Methyl Pentane	2, Pentene	Ethynyl Cyclopropane
3 Methyl 1 Butene	2 Butene (Cis + trans)	2 Butyne	1 Butyne
Vinyl Acetylene	1 Propyne	Neo- Pentane	1,2 Butadiene
1,2 propadiene			

All Liquid and Gases available in sizes : LB - 0.41 Liters to 100 LB with Dipstick tube to withdrawal liquid from the cylinder.

PRESSURE REGULATORS

- Pressure Regulators:
- Single Stage
- MOC : SS/MONEL/BRASS
- Double Stage
- Line Regulator
- HI Pressure Regulator Out put Pressure 0-100 Bar OR as per Customer Requirement



GAS SAMPLING BOTTLES

- Purpose : Sampling Of Gases like LPG/Natural Gas /Permanent Gases.
- Easy to Purge/Easy to connect with Instruments like GC's , Analyzers.
- Connection : SS fine Control needle Valve, Flexible Hose (Optional), Pressure regulator Optional) .
- Pressure Rating up to 200 bar
- Certificates along with bottles
- Material test Certificates
- Radiography Certificates
- Hydro test Certificates



CALIBRATION GAS MIXTURE

ENVIRONMENTAL

Air Monitoring / Stack Emission / Pollution Control

CO₂ ppm/ % in Air / Nitrogen, CO ppm/ % / in Air/Nitrogen, H₂S ppm/ % / in Air/Nitrogen, CH₄ ppm/ % / in Air/Nitrogen, NO ppm/ % / in Air/Nitrogen NO₂ ppm/ % / in Air/Nitrogen, SO₂ ppm/ % / in Air/Nitrogen, Laser gas mixtures : 4.5 %CO₂, 13.5 %N₂ in He ,2-4 %CO, 6-8 % CO₂, 6-8 %N₂ in He, 8.3-20 % Neon in He

INSTRUMENT GAS MIXTURE

P-10, 10% Methane in Argon, P5, 5% Methane in Argon 8.5% Hydrogen in Helium.

LPG Gas Mixture, Natural Gas mixture refinery gas mixture, transformer oil dissolve gas standard.

All the mixtures are available on request

Industrial UHP grade Mixtures : Argon + Hydrogen ,Argon+Oxygen, Nitrogen+Hydrogen Mix

Fire Suppretion Mix :

Argonite (Argon 50 +Nitrogen 50 %),Inergen (N₂ 52 %+40 % Argon+ 8% CO₂) at 150 to 200 bar

REFRIGERATION GASES

R- 134a

It is used in new medium-and high-temperature stationary commercial refrigeration, as well as chiller systems and home appliances. In addition, it can be used to retrofit existing R-12 refrigeration and air conditioning systems. It is also the global standard for new mobile air conditioning and can be used to retrofit existing R-12 mobile air conditioning systems.

ASHRAE No. :R-134a. Replaces:R-12

Packing : 10kg, 25kg, 61kg, 900kg, 18000kg, 22000kg refillable containers/cylinders. 13.6kg, 22.7 kg Disposable cylinders, Iso tanks, Tonners, DOT and Non DOT. 340gms and 500gms Small cans

404A Refrigerant

R 404A continues to lead the way as the global industry standard HFC refrigerant for new commercial refrigeration applications. R 404A delivers exceptional capacity and efficiency as an R-502 and R-22 replacement in refrigeration applications and is approved for use by the leading compressor and equipment manufacturers worldwide.

ASHRAE No. ; R-404A. Replaces : R-502

Packing : 8kg, 17kg, 47kg, 760kg cylinders/Tonners. 10.9kg Disposable cylinders ISO Tanks in DOT and Non DOT.

R -123

Is an HCFC retrofit Refrigerant for R-11 in low-pressure centrifugal chillers. New centrifugal equipment design provides excellent energy efficiency. In retrofits of existing centrifugal chillers, systems modifications are often needed to increase capacity or avoid material incompatibility. Consult with the OEM for specific guidance.

ASHRAE No. R-123. Replaces : R-11

Packing : 100 kg drum, 18MT ISO tank

R - 23 refrigerant

R - 23 is an HFC retrofit refrigerant for R-13 and R-503 in very low temperature applications [below -40°F to -100°F (-40°C to -73°C)] such as medical freezers and environmental chambers. It can be used in new systems as well as to retrofit existing systems.

ASHRAE No. R-23. Replaces: R-13 and R-503

Packing : 9kg, 38kg, 45kg Seamless, high pressure cylinders.

R - 141b

R - 141b is ideal for spray since it is a liquid at atmospheric conditions and has low vapor thermal conductivity. These properties allow the production of easy to process polyurethane chemicals and the production of polyurethane foam with excellent physical properties.

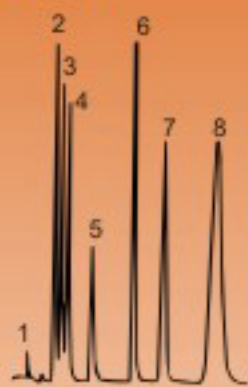
ASHRAE No. : R-141b

R - 141b is also an ideal blowing agent for panel application. Refex 141b has a low vapor thermal conductivity that gives the polyurethane core blown with Refex 141b good insulation value. Additionally, because HCFC 141b is a liquid at atmospheric conditions it allows the foam system to be easily processed and gives good flow properties to the foam. Good flow allows the material to fill the panels uniformly.

Packing : 235kg, 250kg drums. 18MT Iso tanks.

Dissolved Gases in transformer oil Analysis (ASTM D-3612)

1. Hydrogen
2. CO₂
3. Ethylene
4. Ethane
5. Acetylene
6. CO
7. Methane
8. Propane+Propylene



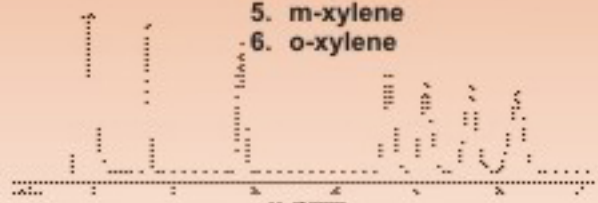
Deuterium Mix Analysis

1. Deuterium
2. Nitrogen



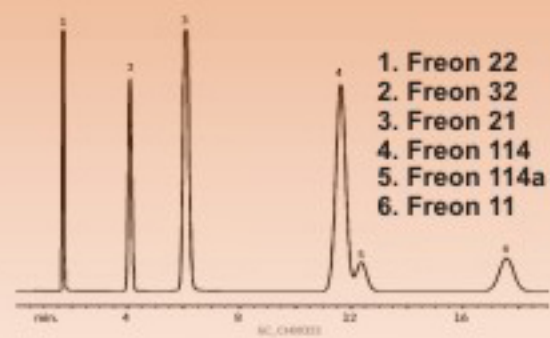
Aromatics (xylene Isomers / BTEX) Analysis

1. benzene
2. toluene
3. ethylbenzene
4. p-xylene
5. m-xylene
6. o-xylene



Chlorofluorocarbons Analysis

1. Freon 22
2. Freon 32
3. Freon 21
4. Freon 114
5. Freon 114a isomer
6. Freon 11



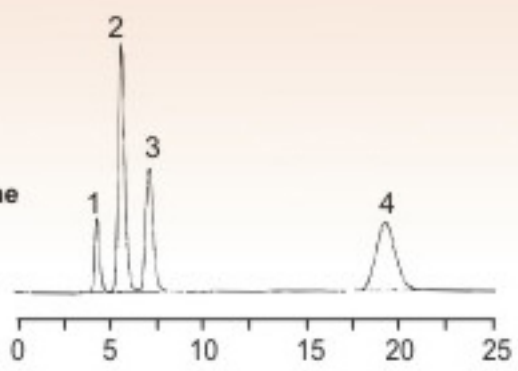
Traces of CS₂ in Toluene

1. CS₂ (2 ppm)



Bio Gas Analysis

1. Air
2. Methane
3. CO₂
4. H₂

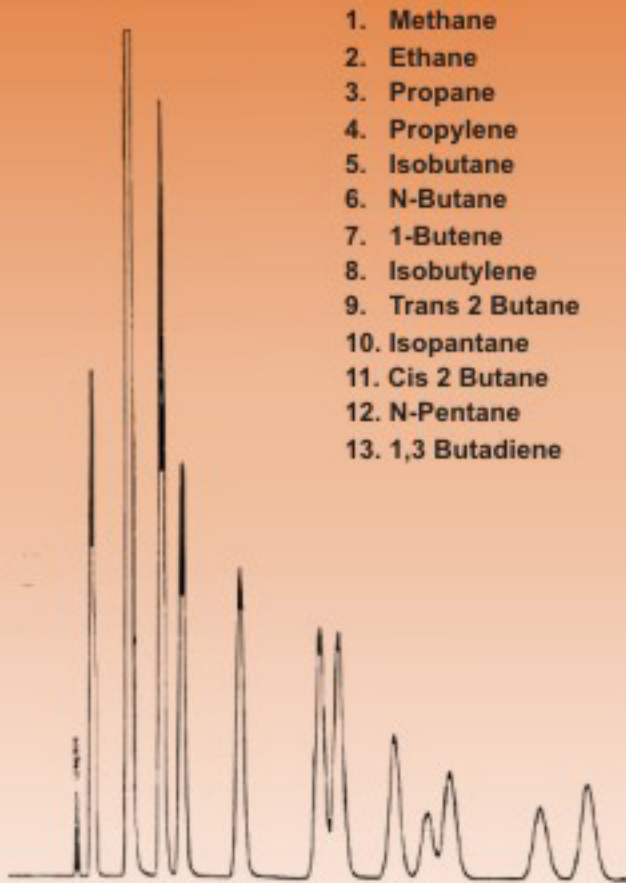


Indian Alcohol Analysis

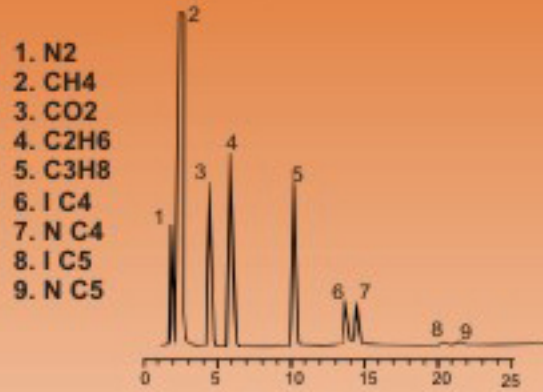
1. Acetaldehyde
2. Methanol
3. Acetone
4. Ethyl Formate
5. Ethanol
6. Ethyl Acetate
7. N-Propanol
8. Sec-butanol
9. Isobutanol
10. Active Amyl Alcohol
11. Isoamyl Alcohol
12. N-Amyl Alcohol



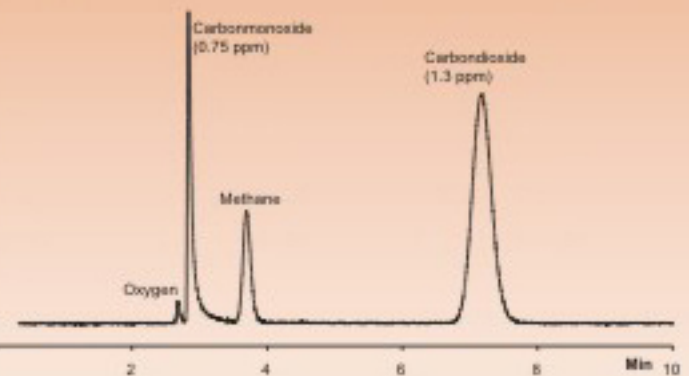
LPG Analysis as per IP 405



Natural Gas Analysis as per (ASTM D-1945)

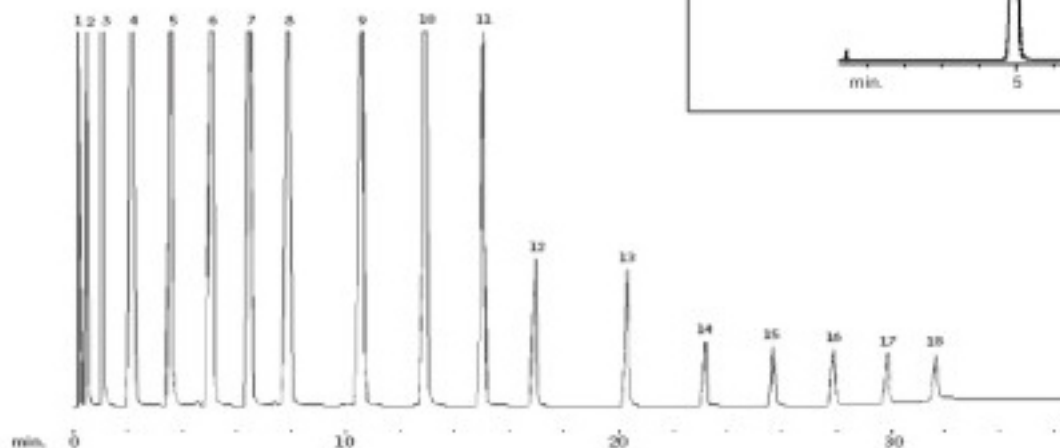


Impurities in Permanent Gases as per UOP



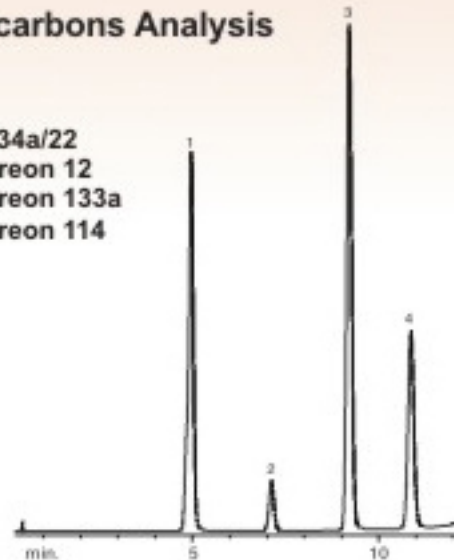
- | | |
|----------------|-----------------------|
| 1. Pentane | 10. Hexadecane |
| 2. Hexane | 11. Octadecane |
| 3. Heptane | 12. Elcosane |
| 4. Octane | 13. Tetracosane |
| 5. Nonane | 14. Octacosane |
| 6. Decane | 15. Dotricontane |
| 7. Undecane | 16. Hexatricotane |
| 8. Dodecane | 17. Tetracontane |
| 9. Tetradecane | 18. Tetratetracontane |

Simulated Distillation Analysis (ASTM D-2887)



Fluorocarbons Analysis

1. 134a/22
2. Freon 12
3. Freon 133a
4. Freon 114





Certificate of Registration

This certificate has been awarded to

Universal Welding & Engineering Company

Pacific Laboratories, AB-4, Nandanvan Co-op. Industrial Estate, L.B.S. Marg, Opp.
ACC Ltd., Thane (W), Maharashtra, 400604, India

in recognition of the organization's Quality Management System which complies with

ISO 9001:2015

The scope of activities covered by this certificate is defined below

Trading of all type of Gases and Analytical Testing Facility

Certificate Number 38705/A/0001/UK/En			
<small>A certificate number of 0001, confirms the Client has a single site Certified & the site is their Head Office or Main site in relation to the Certified scope with URS. A certificate number of 0002, or greater (e.g.: xxxxx/8/0002/UK/En) refers to a client that has more than one site certified with URS, as such, the following statement shall apply - 'The validity of this certificate depends on the validity of the main certificate.'</small>			
Date of Issue of Certification Cycle	Issue Number	Certificate Expiry Date	Certification Cycle
13 April 2022	7	12 April 2025	5
Revision Date	Revision Number	Original Certificate Issue Date	Scheme Number
23 February 2022	0	13 April 2010	n/a

For detailed explanation for the data fields above, refer to <http://www.urs-holdings.com/logos-and-regulations>

Issued by

On behalf of the Schemes Manager



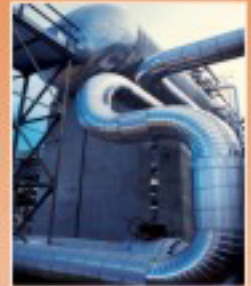
ANALYTICAL TESTING FACILITY

INDEPENDENT SAMPLING & TESTING LABORATORY

● ANALYSIS OF NATURAL GAS ON GAS CHROMATOGRAPH

Natural Gas Components and Range of Composition Covered Component Mol %

- Helium 0.01 to 10
- Oxygen 0.01 to 20
- Carbon dioxide 0.01 to 20
- Ethane 0.01 to 100
- Propane 0.01 to 100
- n-Butane 0.01 to 10
- Isopentane 0.01 to 2
- Hexane isomers 0.01 to 2
- Hydrogen 0.01 to 10
- Nitrogen 0.01 to 100
- Methane 0.01 to 100
- Hydrogen sulfide 0.3 to 30
- Isobutane 0.01 to 10
- Neopentane 0.01 to 2
- n-Pentane 0.01 to 2
- Heptanes+ 0.01 to 1



LPG ANALYSIS

LIQUIFIED PETROLEUM GAS ON GAS CHROMATOGRAPH COMPONENT AND RANGE OF COMPOSITION COVERED COMPONENT MOL %

- Ethane 0- 2 %
- Iso-Butane 0-22%
- Iso-pentane 0-1%
- Cis 2 Butene 0-2%
- 1,3 Butadiene 0-2 %
- Propane 0-60 %
- N-Butane 0-18%
- N-Pentane 0-1%
- Trans 2 Butene 0-2%
- 1-Butene 0-2%



DISSOLVE GAS ANALYSIS IN TRANSFORMER OIL

ANALYSIS ON GAS CHROMATOGRAPH AND OIL EXTRACTION BY DGA MULTIPLE GAS EXTRACTOR

- The individual component gases that may be identified and determined in ppm includes
- Oxygen-O₂
- Carbon monoxide-CO
- Methane-CH₄
- Ethylene-C₂H₄
- Propane-C₃H₈
- Hydrogen-H₂
- Nitrogen-N₂
- Carbon dioxide-CO₂
- Ethane-C₂H₆
- Acetylene-C₂H₂
- Propylene-C₃H₆



TOTAL SULPHUR ANALYSIS

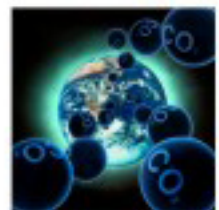
In LPG, LNG, CO₂ and all permanent gases on Sulphur Analyser

PESTICIDES & HEAVY METALS

Analysis of pesticides & heavy metals like Pb, As, Hg, Cd, in food grade CO₂ & Nitrogen.

ANALYSIS OF PERMANENT GASES

- Certifying impurities in He/N₂/H₂/Argon/Air
- Oxygen
- Carbon dioxide
- Total Hydrocarbon
- Impurities Like :
- Moisture
- Carbon monoxide
- Total Sulphur



UNIVERSAL WELDING & ENGINEERING COMPANY

AN ISO 9001 : 2015 CERTIFIED COMPANY



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