CALIBRATION GAS MIXTURES
And Specialty Gases

CALIBRATION GAS CYLINDERS

Specialty Multi Component Gas Blends
Traceable to NPL/NIST Standards
Up to 40 Components RGA Blends
PPBV Sulphur Blends.
Stability up to 36 months.
Aluminium/Carbon Steel Cylinders.
360,1300,7000 & 10000 Ltr Cylinder Options.
Specialty Gas Delivery regulators.

CALIPORT CALIBRATION GAS

Eliminates Cylinder purchase
Ex Stock Blends of more than 40 gases
60 Ltr of usable gas
Up to 50 calibration of LEL Detectors
Less than 600gms in weight ideal for remote areas

ABOUT US

Through our state-of-the-art analytical laboratories and filling facilities, we provide the highest quality reference gas mixtures with precision and stability. We produce calibration gases in compliance with ISO 6142 and ISO 6143 standards, ensuring accuracy and traceability. We produce more than 15,000 cylinders and portables, serving 2000 customers across segments such as refineries, petrochemical, pollution control, marine, power, steel, fertilizer. Our product range includes liquid blends, gas blends in various cylinder packages. We specialize in 24 hour express delivery in the domestic market in India and up to 1 week ex-works worldwide.

For more information regarding calibration gases visit our website www.Chemtronscience.com
TYPICAL APPLICATION:

- EPA/Pollution Control Blends
  - CO, NOX & SOX in N2
  - VOC BTEX Blends
  - Automotive Exhaust Blends
- Oil & Gas
  - Natural Gas Blends
  - Standard Calorific Blends
  - Sulphur Standards in NG/Hydrocarbons
- Petrochemicals
  - C4, C5 Isomers Blends
  - Propylene/Ethylene standard Impurities
  - Sulphur Standards in Hydrocarbons
- Process Analyzers
  - Oxygen and other permanent gases in N2
  - RGA Blends upto 40 Components
  - Other 4 to 10 component blends
- Gas Detectors/Analyzers
  - % LEL in Air
  - Toxic in PPMV
  - Sulphur in PPBV

Speciality Gases Cylinders Options

3 Ltr Cylinders
- Carbon Steel / Aluminium
- 370 ltrs @ 125 Bar

5 Ltr Cylinders
- Carbon Steel / Aluminium
- 625 ltrs @ 125 Bar

10 Ltr Cylinders
- Carbon Steel / Aluminium
- 1300 ltrs @ 125 Bar

47 Ltr Cylinders
- Carbon Steel
- 7000 ltrs @ 140 Bar

50 Ltr Cylinders
- Carbon Steel
- 10000 ltrs @ 200 Bar

Speciality Gas Cylinder Delivery Regulators

<table>
<thead>
<tr>
<th>Part No</th>
<th>MOC</th>
<th>Short Name</th>
<th>Description</th>
<th>Inlet Connection/Gauge</th>
<th>Outlet Connection/Gauge</th>
<th>Flow Rate</th>
<th>Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRGL-S-S-7</td>
<td>SS 316</td>
<td>REG</td>
<td>SS316 Single Stage Regulator</td>
<td>5/8&quot; M or F /280 Kg/cm²</td>
<td>1/4 or 1/8 Compression / 0-200 kg/cm²</td>
<td>10 LPM</td>
<td>&lt; 1Kg</td>
</tr>
<tr>
<td>RGL-S-S-7</td>
<td>SS 316</td>
<td>REG</td>
<td>SS316 Single Stage Regulator</td>
<td>5/8&quot; M or F /280 Kg/cm²</td>
<td>1/4 or 1/8 Compression / 0-14 kg/cm²</td>
<td>300 LPM</td>
<td>&lt; 2Kg</td>
</tr>
<tr>
<td>RGL-D-S-B-7</td>
<td>Brass</td>
<td>REG</td>
<td>Brass Double Stage Regulator</td>
<td>Brass Double Stage Regulator</td>
<td>1/4 or 1/8 Compression / 0-14 kg/cm²</td>
<td>300 LPM</td>
<td>&lt; 4 Kg</td>
</tr>
</tbody>
</table>

Flow Meters for Analyzer Calibration

<table>
<thead>
<tr>
<th>Part No</th>
<th>MOC</th>
<th>Short Name</th>
<th>Description</th>
<th>Inlet Connection/Gauge</th>
<th>Accuracy</th>
<th>Flow Rate</th>
<th>Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGL-A-1</td>
<td>Acrylic</td>
<td>FLOWM</td>
<td>1 LPM Flow meter</td>
<td>1/4 or 1/8 F compression</td>
<td>5%</td>
<td>–</td>
<td>&lt; 1Kg</td>
</tr>
<tr>
<td>RGL-A-5</td>
<td>Acrylic</td>
<td>FLOWM</td>
<td>5 LPM Flow Meter</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>&lt; 1Kg</td>
</tr>
</tbody>
</table>
TYPICAL CALIPORT BLENDS:

% LEL Blends
- 10, 25, 50 % LEL of All hydrocarbons
- LEL for Flammable solvents/Liquid Hydrocarbons

Toxic Blends
- PPMV Standards for Toxic gases
- Up to 15 months of Stability

Quad Mixtures
- CH4, CO, H2S and O2 in single cans.
- 4 Gas calibration of Detectors/Analyzer from one can.

Exotic Mixtures
- PPM Chlorine, HCL & NH3
- PPB Level Sulphur for CO2 Plants

FEATURES AND ADVANTAGES:
- Portable, Economical & Disposable
- Eliminates Cylinder Purchase
- Can Calibrate up to 50 %LEL Detector
- Weight less than 600 gms
- Easy to handle and operate for remote areas.

<table>
<thead>
<tr>
<th>Target Gas</th>
<th>Gas Class</th>
<th>Gas Type</th>
<th>Gas Type</th>
<th>Description</th>
<th>Short Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR</td>
<td>Zero</td>
<td>Zero</td>
<td>Non Reactive</td>
<td>99.999 % (Zero 20.8% bal N2) AIR</td>
<td>60</td>
</tr>
<tr>
<td>C1</td>
<td>Flammable</td>
<td>%</td>
<td>Non Reactive</td>
<td>1.0/8.0 % v/v CH4 Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>C1</td>
<td>Flammable</td>
<td>LEL</td>
<td>Non Reactive</td>
<td>10/20/25/30/50 % LEL CH4 Bal Air</td>
<td>60</td>
</tr>
<tr>
<td>C1</td>
<td>Flammable</td>
<td>PPM</td>
<td>Non Reactive</td>
<td>10/25/50/100 PPMV CH4 Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>C2</td>
<td>Flammable</td>
<td>LEL</td>
<td>Non Reactive</td>
<td>20/25/50 % LEL Ethylene Bal Air</td>
<td>60</td>
</tr>
<tr>
<td>C2</td>
<td>Flammable</td>
<td>PPM</td>
<td>Non Reactive</td>
<td>10/100/500/1000 PPMV Ethylene Bal Air</td>
<td>60</td>
</tr>
<tr>
<td>C3</td>
<td>Flammable</td>
<td>LEL</td>
<td>Non Reactive</td>
<td>20/25/30/50 % LEL Propane Bal Air</td>
<td>60</td>
</tr>
<tr>
<td>C6</td>
<td>Flammable</td>
<td>PPM</td>
<td>Non Reactive</td>
<td>100/500/1000 PPM Vol/Vol Benzene Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>C6</td>
<td>Flammable</td>
<td>Non Reactive</td>
<td>100/500/1000 ppb Vol/Vol Benzene Bal N2</td>
<td>60</td>
<td>0.5</td>
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<tr>
<td>CL2</td>
<td>Exotic</td>
<td>PPM</td>
<td>Reactive</td>
<td>5/10/25/50/100 PPMV Chlorine Bal N2/Air</td>
<td>60</td>
</tr>
<tr>
<td>CO</td>
<td>Flammable</td>
<td>PPM</td>
<td>Non Reactive</td>
<td>5/10/25/50/100/200/500 PPMV CO Bal N2/AIR</td>
<td>60</td>
</tr>
<tr>
<td>CO2</td>
<td>Inert</td>
<td>%</td>
<td>Non Reactive</td>
<td>2.0/2.5/5.0 Vol/Vol Carbon Di Oxide Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>CO2</td>
<td>Inert</td>
<td>PPM</td>
<td>Non Reactive</td>
<td>200/500/750/1000 PPMV Carbon Di Oxide Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>H2</td>
<td>Flammable</td>
<td>LEL</td>
<td>Non Reactive</td>
<td>20/25/50 % LEL Hydrogen Bal Air</td>
<td>60</td>
</tr>
<tr>
<td>H2</td>
<td>Flammable</td>
<td>PPM</td>
<td>Non Reactive</td>
<td>100/500/1000 PPMV Hydrogen Bal Air</td>
<td>60</td>
</tr>
<tr>
<td>H2S</td>
<td>Exotic</td>
<td>PPM</td>
<td>Reactive</td>
<td>5/10/25/50/75/100/200 PPMV H2S Bal N2/AIR</td>
<td>60</td>
</tr>
<tr>
<td>HCL</td>
<td>Exotic</td>
<td>PPM</td>
<td>Reactive</td>
<td>5/10/25/50/100 PPMV Hydrogen Chloride Bal N2/Air</td>
<td>60</td>
</tr>
<tr>
<td>IC4</td>
<td>Flammable</td>
<td>%</td>
<td>Non Reactive</td>
<td>8 % Vol/Vol iso Butane Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>IC4</td>
<td>Flammable</td>
<td>LEL</td>
<td>Non Reactive</td>
<td>25/50 % LEL iso Butane Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>IC4</td>
<td>Flammable</td>
<td>PPM</td>
<td>Non Reactive</td>
<td>20/50/75/100 PPMV iso Butylene Bal AIR</td>
<td>60</td>
</tr>
<tr>
<td>N2</td>
<td>Zero</td>
<td>Zero</td>
<td>Non Reactive</td>
<td>99.999 % (Zero) N2</td>
<td>60</td>
</tr>
<tr>
<td>nC4</td>
<td>Flammable</td>
<td>LEL</td>
<td>Non Reactive</td>
<td>25/50 % LEL n-Butane Bal Air</td>
<td>60</td>
</tr>
<tr>
<td>nC5</td>
<td>Flammable</td>
<td>LEL</td>
<td>Non Reactive</td>
<td>7/10/25/50 % LEL Pentane Bal Air</td>
<td>60</td>
</tr>
<tr>
<td>NH3</td>
<td>Exotic</td>
<td>PPM</td>
<td>Reactive</td>
<td>10/25/50/100 PPMV Ammonia Bal N2/Air</td>
<td>60</td>
</tr>
<tr>
<td>NO</td>
<td>Exotic</td>
<td>PPM</td>
<td>Reactive</td>
<td>5/10/25/50/100/900 PPMV NO Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>NO2</td>
<td>Exotic</td>
<td>PPM</td>
<td>Reactive</td>
<td>5/10/25/50/ PPMV NO2 Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>O2</td>
<td>Inert</td>
<td>%</td>
<td>Non Reactive</td>
<td>10/12.5/18/25 Vol/Vol Oxygen Bal N2</td>
<td>60</td>
</tr>
<tr>
<td>SO2</td>
<td>Exotic</td>
<td>PPM</td>
<td>Reactive</td>
<td>5/10/25/50/100 PPMV Suphur Di Oxide Bal N2/Air</td>
<td>60</td>
</tr>
</tbody>
</table>
List of Esteemed Customers for Calibration Gases and Gas Handling Equipments Below is the list of few of the clients where we are regularly supplying the materials like Calibration Gases, Sampling Bottles and accessories and Gas Pressure Regulators.

Customer Name

Oil and Gas Industry
1. Oil and Natural Gas Corporation
2. Indian Oil Corporation Ltd.
3. Gail (India) Ltd.
4. BHARAT PETROLEUM CORPORATION LTD
5. Bharat Oman Refineries Ltd.
6. Chennai Petroleum Corporation Ltd.
7. Mangalore Refineries and Petrochemicals Ltd.
8. HINDUSTAN PETROLEUM CORPORATION LTD
9. Cairn Energy
10. HPCL Mittal Energy Ltd.
11. Haldia Petrochemicals Ltd.
12. Reliance Industries Ltd.

Steel and Cement Industry
1. Steel Authority of India Ltd.
2. ACC LTD
3. Rashtriya Ispat Nigam Ltd.
4. Ambuja Cement

Chemicals and Fertilizers
1. RASHTRIYA CHEMICALS & FERTILISERS LTD
2. GNVFC - BHARUCH
3. Hindustan Organics Corporation Ltd.
4. National Fertilizers Ltd. Hariyana
5. Supreme Petrochemicals
6. Gharda Chemicals

Engineering Companies
1. Bharat Heavy Electricals Ltd.
2. Larson and Toubro
3. Indian Railways
4. GODREJ INDUSTRIES LIMITED
5. Jindal Drilling & Industries
6. POWER MACHINES
7. Sterlite Technologies Limited

Original Equipment Manufactureres (Detectors and Analyzers)
1. ABB Ltd, Bangalore
2. Siemens Limited (Energy)
3. Chemtrls Industries Ltd. Goa
4. Adage Automation, Mumbai
5. Forrbes Marshall, Pune
7. Honeywell Automation India Ltd
8. Hydrocarbon Solutions
9. Environmental S.A.
10. Thermofischer
11. Servomex

Pharma Industry
Jubilant Life Sciences Ltd.
PerkinElmer - Thane
Lupin Limited - Goa
Glenmark Pharmaceuticals Ltd
PFIZER PHARMACEUTICAL INDIA PVT LTD

Project Management Consultancies
1. Engineers India Ltd.
2. Petrofac International Ltd.
3. Technip Kt India Ltd.
4. Uhde India Pvt. Ltd.
5. Essar Projects India Ltd.
6. Fabtech Projects and Engineers
7. IOT Infra. and Energy Ltd.
8. Toyo Engineering India Ltd.
9. Punjlloyd Ltd.

Power Industry
1. Nuclear Power Corp.of India Ltd.
2. National Thermal Power Corp.
3. Power Grid Corp. of India Ltd.
4. Ratnagiri Gas & Power Pvt. Ltd.
5. Reliance Energy
6. Tata Power
7. Lanco Infra.
8. TENUGHAT THERMAL POWER STATION
9. PRAGATI POWER CORPORATION LTD
10. JSW Energy Ltd. (Ratnagiri)
11. Bloom Energy India P.Ltd

More than 25 years of experience in Calibration Gas | Over 300 employees |
3 ISO 9001:2008 certified facilities |
One stop solution for gas generation, measurement and handling equipment |