

AXCEL GASES

(AN ISO 9001:2015 Certified Company)

CORPORATE PROFILE

FK-5-1-12 O CALIBRATION S
NITROGEN P₁ N NAF-S-125
ACETYLENE S HFC-125
ARGONITE 300 BAR ETHANE NO₂ H₂ CH₄
IG-55 GAS MIXTURE IG-01 FLOWMETER
NITRIC OXIDE
BUTANE QUADS HYDROTESTING
C₂H₄ PESO NOVEC-1230
SF₆ CO OXYGEN
FIRE SUPPRESSION HFC-227EA NOX
HCL FM-200 M NH₃ PROPANE ZERO AIR REGULATORS
H ARGON PPM CO₂ NEON NN-100
INERGEN 300 BAR CHLORINE
IG-541 HIGH PRESSURE P10 XENON KRYPTON HYDROGEN



Accelerating Excellence in Chemical Engineering and Leadership

WHO WE ARE ?

Established in 2007, Axcel Gases is an ISO 9001:2015 certified, PESO (Petroleum and Explosives Safety Organisation) approved manufacturer, located in the National Capital Region (Delhi-NCR). We have stood out as one of the leaders in the gases industry, with latest manufacturing and testing facilities.

We offer a wide variety of gases, including fire suppression, calibration, high-purity lab-grade, and Gas Cylinder Quads/Cascades serving across India and internationally. In addition, we supply different types of high-pressure and acetylene cylinders, along with specialized hydro testing and the provision of pipeline installation services at customer locations.

At Axcel Gases, we are devoted to deliver excellence in every aspect of our operations. Our production facility is one of the best in Northern India with proven technology credentials and an in-house laboratory making us fully equipped to produce, test, and certify highly accurate range of products.



Vision

To be the national leader and have global reputation in gas manufacturing and supply, recognized for our commitment to excellence, innovation, and sustainability.

Mission

To be the one-stop solution for high-quality industrial gases and related products, meeting the diverse needs of the market worldwide while maintaining excellence in service, compliance, and customer satisfaction.

| SUSTAINABLE PATHWAYS

At Axcel Gases, we prioritize cost efficiency, safety, and environmental responsibility in every aspect of our operations. Our mission goes beyond mere production; by adhering to clean air regulations, we pave the way for a more sustainable future by producing gases that complies both industry standards and environmental goals.

We play a crucial role in various industries, providing services to key sectors like Fire Safety, Automotive, Chemicals, Energy, Oil & Gas, Mining, Metallurgy, Research & Development, Food & Beverages, Glass, Electronics, and Healthcare. We have adopted eco-friendly production methods that optimize energy use and resource efficiency.

Through our efforts, we support cleaner industrial practices, adding value across the production chain and enhancing customer satisfaction by delivering reliable and environmentally conscious solutions.



SOME OF OUR CLIENTS



TATA CHEMICALS LIMITED



TATA PROJECTS



tata institute of
fundamental research



TATA POWER



TAIYO NIPPON SANSO



L&T Technology Services



Shapoorji Pallonji



TOSHIBA



Whirlpool



HONDA MOTORCYCLE & SCOOTER INDIA PVT. LTD.

ORIENT
PAPER



BHOOMI®

RELIANCE
Power



JM
Johnson Matthey
Inspiring science, enhancing life

adani



FIRE SUPPRESSION - CLEAN AGENT GASES



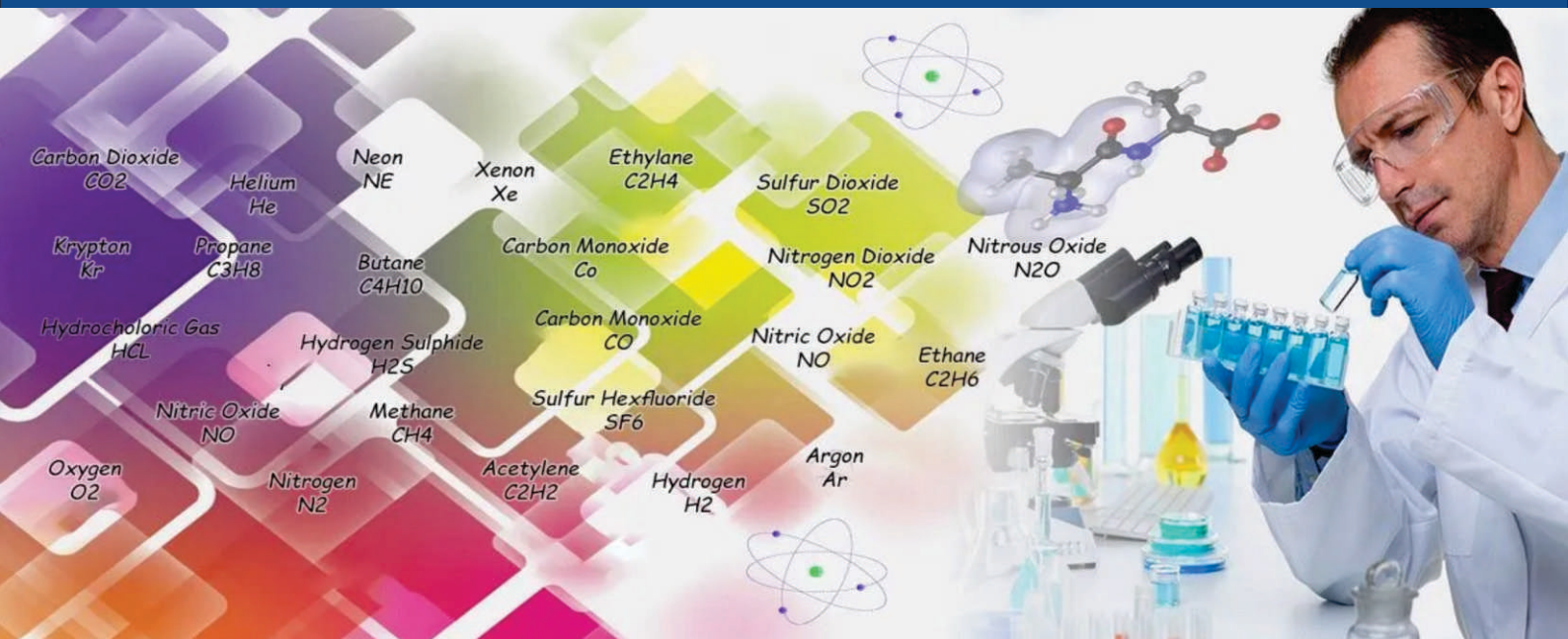
Novec 1230 – FK 5-1-12	Argonite – IG 55
FM 200 – HFC 227ea	Nitrogen – IG 100 – NN 100
HFC 125 – NAF s 125	Argon – IG 01
Inergen – IG 541	Carbon Dioxide – CO ₂

PESO APPROVED REFILLING & HYDROTESTING

Clean agents like Novec 1230, FM 200, HFC 125, along with gases like Argon, Inergen, Nitrogen, Argonite and Carbon Dioxide are extensively used in fire suppression systems. As a PESO approved company, Axcel Gases provides cylinder refilling services for these fire suppression gases at pressures of 300 Bar or higher. Furthermore, we also hold the PESO certification to perform Hydro Testing & Inspection on gas cylinders at pressures of 700 Bar or more. Additionally, we deal in different types of pneumatically operated automatic and solenoid valves.

CALIBRATION GASES

Calibration gases, also known as, reference gases are a mixture of two or more gases used to calibrate analytical instruments. At Axcel Gases, we provide pure, top-tier calibration gases, formulated to match industry standards. Each mixture undergoes critical analysis using advanced equipment including Electronic Analysers and Gas Chromatographs ensuring accuracy and reliability



Blending

Gravimetric method stands out to be the most precise method to create calibration gases. In this process each gas component is individually weighed using highly accurate scales and then mixed in the exact proportion required. We use precision scales with a least count of 0.0001 grams, allowing us to prepare gas mixtures at percentage and PPM (parts per million) levels. For very low concentrations, we use dilution techniques to ensure accuracy.

Analysis

Different gases may behave unpredictably when mixed, potentially impacting their concentrations. Thus, it's essential to assess the concentration level of each component after mixing. We use advanced analysers and Gas Chromatograph to verify the true concentration of each gas in the mixture. Once verified, we certify the mixture with its exact concentration

Chlorine Gas Analyzer	Binary Gas Analyzer	Trace Oxygen Analyzer	Dew Point/Moisture Analyzer	Percentage Oxygen Analyzer
Carbon Monoxide Analyzer	Nitric Oxide Analyzer	Sulphur Dioxide Analyzer	Hydrogen Sulfide Analyzer	Nitrogen Dioxide Analyzer
Carbon Dioxide Analyzer	Hydrogen Chloride Analyzer	Ammonia Analyzer	Total Hydrocarbon Analyzer	Gas Chromatographs

HIGH PURITY GASES

Axcel Gases holds the PESO (Petroleum and Explosives Safety Organization) license to manufacture and store wide range of gases including Argon, Nitrogen, Carbon Dioxide, Oxygen, Acetylene, Zero Air, and Mixture & Calibration Gases & Fire Suppression Gases, all under one roof.

We ensure to maintain the highest standards by using advanced technology in our in-house production and testing facility.

AAS Grade Acetylene Gas			
Grade – N	Purity	Impurities	
		O ₂ + N ₂ + CH ₄ + HC %	PH ₃ + NH ₃
AAS – 2.6 N	99.6%	0.38%	10 VPM
* For various other purity grades, please contact us.			

Spectrometer Grade Argon Gas							
Grade – N	Purity	Maximum Impurities in PPM by Volume					
		O ₂	N ₂	CO ₂	CO	Moisture	THC
Spectrometer – 5.2 N	99.9992%	1.5	1.5	0.2	0.2	1	0.2
* For various other purity grades, please contact us.							

Gas Mixtures

Industrial and medical applications often require precise gas mixtures like Argon + Oxygen, Argon + Carbon Dioxide, Nitrogen + Helium and various other mixtures as required. Each mixture is carefully tested for quality for optimal quality and performance.

Different processes and technologies require specific gases to be mixed in varying concentrations. At Axcel Gases, we are well-equipped to provide such gas mixtures tailored to the specific requirements of our customers. Our team uses advanced technology to create and verify these mixtures, ensuring they meet industry standards and customer needs.

CYLINDERS

We supply a range of cylinders that comply with all industry standards including BS EN ISO 7866:2012, ISO 7866:2012, IS 15660, IS 7285, IS 7312, with filling permission issued by PESO. The major types of cylinders we offer include:

Carbon Steel Seamless Gas Cylinders

Widely used and available in sizes ranging from 1 litre to 80 litres, with working pressures between 150 kg/cm² and 350 kg/cm².

Working Pressure (Bar)	Water Capacity (litres)	Gas Capacity (m ³)	Outside Diameter (mm)	Min Wall Thickness (mm)	Length (mm)	Tare Weight Approx (Kg)
150	2	0.3	108	3.5	330	4.5
	5	0.75	108	3.5	735	8
	10.2	1.53	140	4.2	855	14.9
	40	6	232	5.5	1200	48
	46.7	7	232	5.5	1370	54
200	6	1.2	140	3.5	610	11
	50	10	232	5.5	1455	58
	80	16	267	6.3	1738	88

* There are various other sizes of cylinders available. Please contact us with your requirement.

Aluminium Seamless Gas Cylinders

Seamless Aluminium cylinders range from 1 litre to 10.2 litres and operate at a pressure of 150 kg/cm².

Working Pressure (Bar)	Water Capacity (litres)	Gas Capacity (m ³)	Outside Diameter (mm)	Length (mm)	Tare Weight Approx (Kg)
150	1	0.15	90	262	1.2
	2.2	0.33	111	370	2.5
	3.1	0.47	111	496	3.3
	4.5	0.68	111	681	4
	5	0.75	111	756	4.5
	10	1.5	140	935	8.5

* There are various other sizes of cylinders available. Please contact us with your requirement.

Acetylene Gas Cylinders – Seamless & Welded

Two types of acetylene cylinders: 3-piece welded and seamless. These cylinders come filled with acetone, and if needed, we can also provide cylinders filled with DMF (Di Methyl Formamide).

Type	Hydrostatic Stretch Pressure (Kg/Cm ²)	Test Pressure (Kg/Cm ²)	Max Working Pressure at 150 C (Kg/Cm ²)	Water Capacity (litres)	Gas Capacity (m ³)	Outside Diameter (mm)	Min Wall Thickness (mm)	Length (mm)	Tare Weight Approx (Kg)
Three Pc. Welded	53	40	16	17	3.2	185	4	815	29
Three Pc. Welded	53	40	16	41	7	258	4	960	855
Seamless	250	150	16	41	7	232	5.6	1220	65

* There are various other sizes of cylinders available. Please contact us with your requirement.

Manifold & Pipelines

Pipelines and manifolds are to manage gas distribution effectively. On one side, installation of these systems reduces the operational costs by minimizing labour, handling, and equipment expenses. While on other side, it lowers the risk of accidents, enhancing overall safety. Axcel Gases provides customized manifold and pipeline solutions tailored to specific processes, ensuring that we meet the unique needs of each customer.

| GAS CYLINDER QUADS

Axcel Gases also manufactures customised cylinder cascades or quads to meet specific requirements. Cascades or quads consist of interconnected cylinders designed for simultaneous loading and unloading as a bunch. Quads are ideal for applications where large quantities of gases are consumed, helping to reduce operational costs.

We offer both vertical and horizontal arrangements and our corrosion-resistant, fully galvanized and painted quads are designed for offshore or underwater environments ensuring safety and durability. Additionally, we manufacture transportation cascades for the safe and easy movement of cylinders.



ACCESSORIES



Cryocans

Axcel Gases also deals in dewars which are also known as cryogenic containers used to store cryogenic liquids like liquid nitrogen, liquid argon, liquid oxygen, or liquid helium at temperatures between -180°C and -200°C .



Regulators

Regulators are essential for reducing gas pressure of the cylinders from high to low. We provide different types of regulators, including brass and stainless steel, depending on the gases used. Brass regulators are suitable for non-reactive and oxidising gases, while stainless steel regulators are used for reactive, corrosive, or toxic gases. We can also offer customised regulators as needed.



Valves

Axcel Gases supply a variety of valves with different thread types and Materials of Construction (MOC). The choice of valve depends on the type of gas and governed by country specific standards. Brass valves are used for non-reactive and oxidising gases, while stainless steel valves are for reactive and corrosive gases. We can provide valves tailored to specific applications.



- ✓ Internal & External Cleaning
- ✓ Internal & External Inspection
- ✓ Tare Weight Verification
- ✓ Ultrasonic Testing
- ✓ Hydrostatic Stretch Testing
- ✓ Drying & Painting
- ✓ Revalidation & Certification

HYDROTESTING & PERIODICAL INSPECTION

In accordance with PESO and BIS regulations, all cylinders must undergo periodic inspection and hydro testing at specified intervals. The retest frequency depends on the nature of the gas previously stored in the cylinder & is determined by BIS standards.

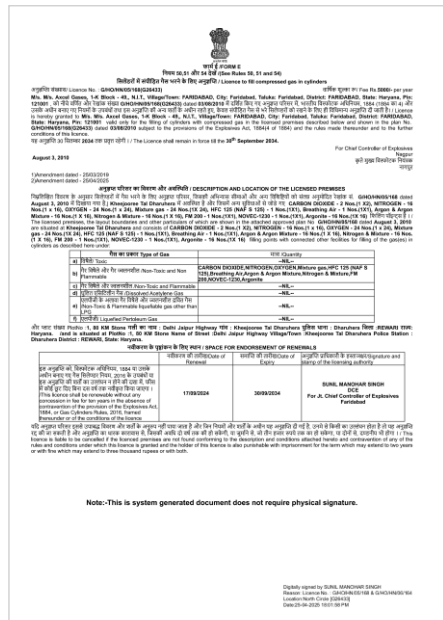
We are PESO approved for Cylinder Hydro Testing up to 700 bar or more. Our extensive experience and years of expertise allow us to conduct these tests complying with government regulations. During inspection and testing procedures, we assess key parameters outlined in IS standards, including permanent expansion, weight loss, and potential internal or external defects.

Additionally, as a Manufacturer of Acetylene Gas, we have extensive expertise in Inspection & Testing of Acetylene Cylinders.

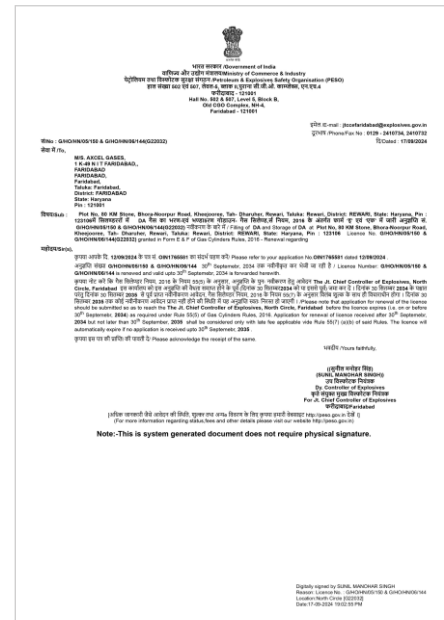
CERTIFICATIONS & LICENSES



ISO 9001:2015



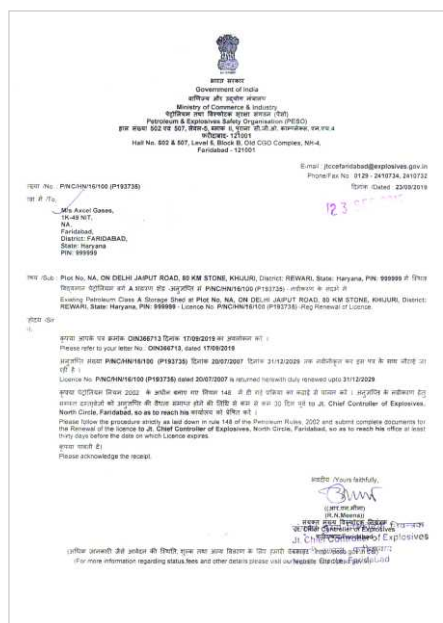
Non-Toxic & Non-Flammable



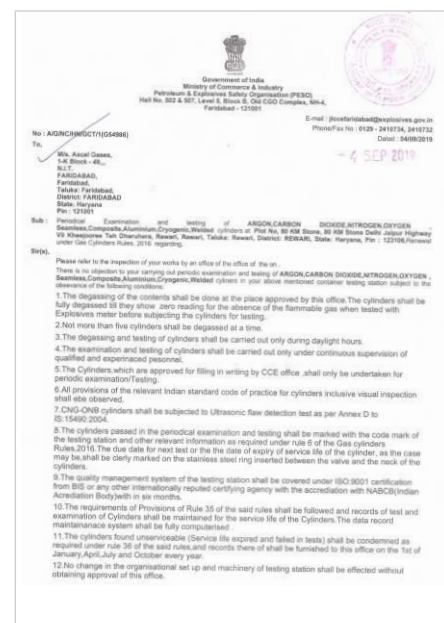
Acetylene



Calcium Carbide



Petroleum Products



Cylinder Hydrotesting



AXCEL GASES

(AN ISO 9001: 2015 Certified Company)

Head Office

📍 1K-49, N.I.T Faridabad - 121001,
Haryana, India

📞 +91 98110 80055

✉️ info@axcelgases.com

🌐 www.axcelgases.com

Works

📍 80KM Stone, NH-8, Delhi-Jaipur Highway,
Dharuhera, Rewari - 123401, Haryana, India

