Electronic Gases
OVERVIEW

Advance Research Chemicals, Inc. (ARC) was founded in 1987 by Dr. Dayal T. Meshri who is recognized globally for his pioneering work of 50 years in fluorine chemistry. Today many of the world’s largest companies are closely associated with us as true business partners in the manufacturing of advanced specialty materials for their products.

ARC offers customer focused solutions to basic and advanced chemical applications with global logistical capabilities. We provide custom synthesis, private label manufacturing, research and development, responsive scalability and advanced fluorinated applications. We service a wide array of industries including semiconductor, battery materials, military defense, pharmaceutical, medical device, automotive, textiles, agriculture, surfactants and industrial cleaning. Dedication to safety is at the core of our processes and to ensure dependability, we maintain numerous certifications including ISO 9001 and ISO 14001. With global production facilities in the United States, Mexico and India, we are known as a true resource in the advanced field of specialty chemicals.
OUR FOCUS AREAS

• Semiconductor Materials
• Institutional and Industrial Cleaning
• Pharmaceutical Reagents
• Medical Devices
• Battery Materials
  Electrolyte and Cathode Materials
• U.S. Government Projects
• Photoinitiators
• Agriculture
ARC has produced specialty fluorinated gases since its inception. Our gas plant division is comprised entirely of solid nickel materials to ensure the highest purification of our final product. We manufacture all purities from 99.9% to 99.999%. ARC invests significantly in the refinement of our production plants and has recently upgraded our analytical capabilities through acquiring a new GS-Mass Spectrometry system.

Our main gas plant is situated in the central United States to easily deliver our products throughout North America in a timely manner. ARC owns its own fleet of hundreds of gas cylinders in all sizes and compositions.
PRODUCT LIST

- ARSENIC PENTAFLUORIDE
- BORON TRICHLORIDE
- BORON TRIFLUORIDE
- BORON TRIFLUORIDE (B10 Enriched)
- BORON TRIFLUORIDE (B11 Enriched)
- CHLORINE MONOFLUORIDE
- CHLORINE TRIFLUORIDE
- DEUTERIUM FLUORIDE
- FLUORINE MIXTURES
- GERMANIUM TETRAFLUORIDE
- HYDROGEN FLUORIDE
- IODINE PENTAFLUORIDE
- IRIDIJUM HEXAFLUORIDE
- MOLYBDENUM HEXAFLUORIDE
- PHOSPHORUS PENTAFLUORIDE
- PHOSPHORUS TRIFLUORIDE
- RHENIUM HEXAFLUORIDE
- SELENIUM HEXAFLUORIDE
- SELENIUM TETRAFLUORIDE
- TELLURIUM HEXAFLUORIDE
- TUNGSTEN HEXAFLUORIDE
- TUNGSTEN HEXAFLUORIDE
ARC, an ISO 9001 company, has a very strong team of professional and technical personnel to ensure the quality of our products. ARC has state-of-the-art laboratories staffed by highly-skilled chemists. Custom research and development, quality control, and process optimization are at the heart of our operations. We are committed to ongoing improvements in the quality of our products and service. ARC has the following production capabilities and services:

- Fluorine (F2) Production Cells
- Bulk Handling Systems for Both Anhydrous & 70% Hydrogen Fluoride
- Multi-Alloy & Lined Reactors
- Millimole to Multi-ton Scalability
- Fluorinating Reagents
- Telomer Reactions
- Custom Synthesis - Design & Development
- CAD Capabilities, Build to Suit for Client
- Contract Research & Development
- Toll Processing and Private Labeling

SAFETY & QUALIFICATIONS

ARC is truly committed to the well-being of our environment. The following certifications represent our commitment to safety:

- Environmental Emissions Control
- USP & GMP
- ISO 9001
- ISO 14001
- Kosher K
- State & Federal Permits
- NMBC (National Minority Business Council)
- OMSDC (Oklahoma Minority Supplier Development Council)
- Herbicide/Pesticide
ANALYTICAL CAPABILITIES

• Ion Chromatography
• Gas Chromatography
• Infrared Spectroscopy
• Willard-Winter Distillation Equipment
• Specific Ion Electrodes
• Karl Fischer Titration
• UV Spectrometer
• ICP-MS
• GC-MS
GLOBAL DIVISIONS

USA CORPORATE HEADQUARTERS
ARC’s world headquarters is strategically located in the center of the United States within the 2,000 acre Port of Catoosa industrial complex. Our manufacturing facilities are housed on four separate campuses with electronic gas production, HF blending, research & development, analytics and custom toll manufacturing. Logistically we have direct international water access, multiple rail line spurs, close proximities to major highways and an international airport.

INDIA OPERATIONS
Advance Fluorine Technologies PVT. LTD. (AFTPL) is a facility dedicated to the production of perfluorinated telomer iodides.

MEXICO OPERATIONS
Our Mexico facility is dedicated to the production of photoinitiators and provides satellite bulk capabilities for manufacturing.
CONTACT US

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