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### Analytical Instrumentation

Analytical instruments are used within virtually every industry. Primary applications include key initiatives such as process control, QA/QC, and environmental and safety monitoring. Gas purity is an essential element in the proper operation of instrumentation and plays vital role in obtaining precise, accurate and repeatable results.

In addition to high quality carrier, fuel gases, instrument support mixtures, and calibration gases, Praxair can provide:

- Cost effective modes of supply
- Gases and grades for specific applications
- Safe and compliant gas storage and handling systems
- Protection of valuable assets
- Compatibility of gases and delivery systems.

Praxair's comprehensive Instrument Reference Guide will help you to quickly and easily identify the gases needed for your specific analytical instrumentation.

Please refer to pages E1-E5 (section E – Products for Special Applications) for a detailed Instrument Reference Guide.

### Environmental Monitoring

Environmental monitoring continues to be an important regulatory mandate affecting virtually every industry on the planet. Praxair's environmental product line addresses the needs of continuous emission monitoring (CEM), mobile emission monitoring and ambient monitoring.

Praxair is an acknowledged leader in the supply of high purity specialty pure gases and mixtures for environmental applications. With dedicated "Center's of Excellence" for environmental gas manufacturing, Praxair's capabilities are among the most extensive in the industry.

From EPA protocols to a wide variety of other NIST traceable grades, Praxair offers a full spectrum of products and services to help industry meet the demanding needs of environmental compliance.

Please refer to pages E6-E11 (section E – Products for Special Applications) for in-depth information on Praxair environmental products.

### Hydrocarbon Processing Refining/Petrochemical/Natural Gas

With many years of experience supplying the largest refining, petrochemical and natural gas companies in the industry, we have the flexibility to meet your unique requirements. Among Praxair's offerings are:

- Accurate Sulfur Standards: Gas mixtures that enable refineries to meet their regulatory requirements by helping determine the sulfur content of the gasoline and diesel fuels that they produce.
- Trace standards for the Petrochemical industry: For monitoring final product quality.

- BTU standards: Multi-component mixtures that enable Natural Gas pipeline companies to quantify the true value of their products.
- Pure Gases: From small cylinders to bulk, we have a ready supply of a variety of containers including 6 and 12-packs of cylinders, tube trailers and small bulk systems.
- Hydrocarbon and Sulfur Blends: High quality gas mixtures for instrument calibration and process control are critical in this industry.

Praxair has a full line of gaseous and liquid hydrocarbon blends to satisfy your requirements for standard and custom mixtures. These mixtures are made from the highest quality source materials for which all minor hydrocarbon components have been detected and quantified. Piston (constant pressure) cylinders are provided upon request. As with all mixtures, certificates of analysis are available.

Please refer to pages E12-E15 (Section E – Products for Special Applications) for in-depth information on products for the refining, petrochemical, and natural gas industries.

### Industrial Hygiene

Praxair's complete line of pure gases and mixtures in transportable refillable and non-refillable containers are available for all industrial hygiene applications.

Please refer to the Products for Special Applications (section E - pages E16-E18) of this catalog for in-depth information on Praxair products for the food industry.