

# Experis<sup>®</sup> Analytical Gases and Calibration Mixtures for Emissions Measurement and Monitoring

Bringing You Peace of Mind with Unrivalled Stability, Accuracy and Purity



Experis analytical gases and calibration mixtures for emissions measurement and monitoring:

- Ambient air quality
- Car emissions
- Marine emissions and testing
- Indoor air quality
- Biogas plant process and quality control

Industries are facing increasingly stringent environmental regulations as governments are tightening regulatory requirements on emissions. You need to have more accurate and reliable analyses of a wide range of chemical pollutants and keep them under control.

As a world-leading industrial gases company, Air Products understands your challenges in complying with environmental regulations. Our Experis range of analytical gases and calibration mixtures, equipped with our unique BIP<sup>®</sup> purification technology and state-of-the-art blending process, can meet your most demanding requirements on accuracy, stability and purity for emissions measurement and monitoring, giving you peace of mind so you are free to concentrate on your business.

- **Stability** Advanced cylinder passivation technologies for ultra-polished and cleaned steel and aluminium cylinders
- **Accuracy** Accurate and consistent analyses with uncertainties level down to +/-0.1%
- **Purity** Award-winning BIP technology produces gases that are up to 300 times purer than normal cylinder gases (<10 ppb oxygen and <20ppb water)
- **Traceability** Gases traceable to international and national standards such as ISO9001:2015 and NIST through NMC
- **Long shelf life** Up to 5 years of shelf life for mixtures with low concentration reactive components (NO<sub>x</sub>, SO<sub>x</sub>, water, CO/CO<sub>2</sub>)

# Experis analytical gases and calibration mixtures for emissions measurement and monitoring

Area	Emissions or Atmosphere to Monitor and Analyse	Gases
<p>Ambient air quality</p> 	<ul style="list-style-type: none"> <li>• Stack emissions</li> <li>• CO<sub>2</sub></li> </ul>	<ul style="list-style-type: none"> <li>• Environmental calibration gases</li> <li>• GC FID and ECD gases</li> <li>• Nitrogen</li> <li>• Zero air</li> </ul>
<p>Car emissions</p> 	<ul style="list-style-type: none"> <li>• Car exhaust emissions</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental calibration gases</li> <li>• GC FID and ECD gases</li> <li>• Nitrogen</li> <li>• Zero air</li> </ul>
<p>Marine emissions and testing</p> 	<ul style="list-style-type: none"> <li>• Exhaust emissions from marine diesel engines</li> <li>• Ambient atmosphere of cargo haul</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental calibration gases</li> <li>• GC FID and ECD gases</li> <li>• Nitrogen</li> <li>• Zero air</li> <li>• Disposable cylinder detection gases</li> </ul>
<p>Indoor air quality</p> 	<ul style="list-style-type: none"> <li>• VOC</li> </ul>	<ul style="list-style-type: none"> <li>• Calibration gases</li> <li>• GCMS gases</li> <li>• Nitrogen</li> <li>• Zero air</li> </ul>
<p>Biogas plant process and quality control</p> 	<ul style="list-style-type: none"> <li>• Emissions from the recycling of raw materials waste</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental calibration gases</li> <li>• Boiler calibration gases</li> </ul>

# Air Products' leading-edge technologies and solutions help solve your environmental compliance challenges

Challenge	Air Products' Technologies and Solutions
<p>Blends of reactive components like SO<sub>x</sub>, NO<sub>x</sub>, NH<sub>3</sub>, acidic mixtures, alcohol mixtures, H<sub>2</sub>O species are highly unstable with short shelf life</p>	<ul style="list-style-type: none"> <li>• Proprietary cylinder passivation technologies</li> <li>• Cylinder coating and plating processes</li> <li>• Mixture material compatibility</li> <li>• BIP purification technology to ensure the highest gas purity</li> </ul>
<p>Calibration blends containing components at low ppm and ppb concentrations are unstable and often inaccurate</p>	<ul style="list-style-type: none"> <li>• High accuracy blends using premix process</li> <li>• Proprietary cylinder passivation technologies</li> <li>• Stringent raw material and process control for low uncertainty</li> </ul>
<p>Stringent government regulations on plant emissions control</p>	<ul style="list-style-type: none"> <li>• Accurate and traceable mixtures by gravimetric and analytical certifications with unique lot numbers</li> <li>• Gases traceable to international and national standards such as ISO9001:2015 and NIST through NMC</li> <li>• Certificate of Analysis (COA) and certification compliant to ISO6141</li> </ul>



## Stability, Accuracy, Purity — Bringing You Complete Peace of Mind

The Experis range of analytical gases and calibration mixtures are amongst the most accurate, stable and purest in the industry, backed by the advanced technologies that Air Products has developed over the decades - from proprietary cylinder passivation technologies, state-of-the-art global blending software, sophisticated blending techniques to stringent quality control.

# Air Products

## A World-leading Industrial Gases Company

Air Products is a world-leading industrial gases company in operation for over 75 years. The company provides industrial gases and related equipment to dozens of industries, including refining, chemical, analytical laboratories, metals, electronics, manufacturing, and food and beverage.

The company has built a reputation for its innovative culture, operational excellence and commitment to safety and the environment. Our passionate, talented and committed employees aim to make Air Products the safest and most diverse industrial gases company in the world, providing excellent service to our customers.

Air Products has been serving Southeast Asia for over 40 years. Our specialty gases and helium facility in Senoko, Singapore is equipped with leading-edge blending booths, supplying customized specialty gas mixtures to meet specific customer needs across Singapore and Malaysia.



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**For more information, please contact us at:**

### **Singapore**

2 International Business Park  
#03-20 The Strategy  
Singapore 609930  
T +65 6494 2240  
(General Inquiries)  
T +65 6494 2173  
(Sales Inquiries)  
mysgmt@airproducts.com

### **Malaysia**

Lot 54, Jalan Sungai Besar 26/7  
Seksyen 26 (HICOM Sector B)  
40000 Shah Alam  
Selangor, Malaysia  
T +603 2742 8118  
(General Inquiries)  
T +603 5101 8785/+603 5101 8624  
(Sales Inquiries)  
mymktg@airproducts.com

### **Indonesia**

Kawasan Industri Cikarang Blok F1-3  
Cikarang, Bekasi  
Jawa Barat 17530  
Indonesia  
T +62 21 2863 8600  
(Permintaan Umum)  
T +62 81314583313/+62 21 2863 8631  
(Permintaan Sales)  
idmktg@airproducts.com



**tell me more**  
airproducts.com