

Experis[®] ultra-high purity gases

Technical specification

Acetylene



Air Products' Experis speciality gases range includes a number of UHP (ultra-high purity) **Acetylene** products with specifications intended to deliver peace of mind whatever your application. Whether it is chemical analysis or process control, our experts are on hand to help you select the right gas for your requirements. The range includes gas with unrivalled specifications of critical impurities and a comprehensive range of package options.

Overview of grades and analytical verification

	Acetylene Industrial	Acetylene Premier (2.6)
Purity	98.5%	99.6%
Analytical verification*	N/A	Batch
PH ₃ (ppm)	<600	<10
H ₂ S (ppm)	<1500	<10

*Explanation of terminology

Batch – Air Products carries out statistical batch analysis on cylinders from the same batch to verify conformance to the advertised specification.

Physical properties

Molecular weight	26.04
State of product in cylinder	Dissolved gas
Boiling point at 1 atm (°C)	-84 ⁽¹⁾
Liquid density at boiling point (g/ml)	0.617
Gas density at 20°C (g/l)	1.747
Vapour pressure at 20°C (bar g)	44
Flammability limits in air (vol % in air)	2.5 to 81.0

⁽¹⁾ Sublimation point

Benefits of Acetylene Premier

Acetylene Premier is an ideal fuel gas for flame atomic absorption spectroscopy (FAAS) due to its low Phosphine (PH₃) and Hydrogen Sulphide (H₂S) specification. This grade of Acetylene will give a cleaner flame and less interference allowing optimum analytical results.

Acetylene specifications

Product	Product code	Size	Valve	Pressure (bar g)*	Contents (kg)**
Acetylene Premier 2.6 (D02)	27311	x30s	BS4	19	6
Acetylene Premier 2.6 (D02)	185697	x51s	BS4	19	9

*@ 150°C

**Indicative fill value

Other UHP gases available from the speciality gases product portfolio include: Argon, Carbon Dioxide, Helium, Hydrogen, Nitrogen, Oxygen and Synthetic Air.

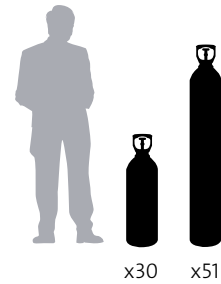
For further information on these gases please see individual data sheets.

Cylinder and pack specifications

Size	Pressure (bar g)	Height (mm)	Diameter (mm)	Width (mm)	Length (mm)	Empty weight (kg)	Full weight (kg)
x30s	19	1050	230	n/a	n/a	54	60
x51s	19	1550	230	n/a	n/a	74	83

Dimensions and weights are approximate, actual cylinder values may differ.

Acetylene is available in the following cylinder size options:



Recommended control equipment*

Type	Model	Product code
Pressure regulator	Two stage, brass, general purpose	R121
Pressure regulator	Single stage, brass, general purpose	R221
Pressure regulator	Single stage, stainless steel	R2100
Manifold	Single wing, high purity	M1000
Manifold	Two wing, manual changeover, high purity	M2000
Manifold	Two wing, automatic changeover, high purity	M3000

*Please refer to the **Equipment Centre Selection Tool** for full equipment information.

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