

## PRODUCT TECHNICAL SHEET DISSOLVED ACETYLENE (C<sub>2</sub>H<sub>2</sub>)

DATE: March 2023

Version: 1



Ref. No.: PS056



*Acetylene is a highly flammable colourless gas of distinct odour. The high solubility of acetylene in acetone (300:1 by volume at 1 100 kPa) enables it to be supplied dissolved in acetone. Acetylene cylinders are filled with porous material which carries the acetone.*

Gas Specification	
Purity	>98.0%

Physical Data	
Specific Volume @20°C	918ml/g
Molecular Weight	26,038
Flammability Limits in air (by volume)	2.0 - 82 %
Relative Density (air= 1) at 101,325 kPa	1,1747 kg/m <sup>3</sup>

Transport/ Storage Information
  UN No 1001      Class 2.1
Always transport cylinder firmly secured and upright
First in - First out inventory system
Do not store in close proximity with oxidising agents, explosives, radioactive agents, organic peroxides, spontaneously combustible material

Hazards
An asphyxiant with anaesthetic properties
Forms an explosive with air
Can form explosive acetylides with unalloyed copper, silver, mercury, brass containing more than 66% copper and brazing materials containing copper and silver
Can decompose within equipment and pipework under certain flow, temperature, and pressure conditions
All Cylinders are portable gas containers and must be regarded as pressure vessels at all times

Uses and Features
Acetylene is the best and most versatile fuel gas for welding, straightening, bending, forming, hardening, cutting or tempering.
used as a fuel gas for oxy-acetylene welding, cutting, general localised heating, flame hardening, flame cleaning to remove rust from steel, spalling concrete and other processes requiring a high temperature flame (3,160°C when combusted in oxygen) Specially purified instrument grade acetyl



Cylinder Information						
Colour Coding	Cylinder Capacity		Pressure @ 20°C (Bar)	Cylinder Dimension		Valve Outlet Connection
	M <sup>3</sup>	CUFT		Height (mm)	Diameter (mm)	
Maroon	5.66	200	-	820	250	5/8" BSPF left hand female
	6.8	240	-	1140	230	
	8.78	310	-	780	285	

*Nb: Other cylinders capacity and dimension also are available - Dimensions are given as an indication and can differ*

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