

## PRODUCT TECHNICAL SHEET

### NITROGEN UHP FOODGRADE (UHP N<sub>2</sub>)

DATE: April 2023

Version: 1

Ref. No.: PSU95




*Nitrogen is a colourless, odourless tasteless, non-toxic, almost inert gas. It comprises of 79% by volume of air. It is non-flammable and will not support combustion. Our Nitrogen UHP is foodgrade*

Gas Specification	
<b>Purity</b>	≥99.999%

Physical Data	
<b>Specific Volume @20°C</b>	862 ml/g
<b>Molecular Weight</b>	28
<b>Boiling point at 101,325 kPa</b>	-195.8°C
<b>Relative Density (air= 1) at 101,325 kPa</b>	0.967

Hazards
All cylinders are portable gas containers and must be regarded as pressure vessels at all times
It can act as a simple asphyxiant by diluting the concentration of oxygen in air below the levels necessary to support life
Nitrogen does not support life

Transport/ Storage Information	
	
UN No 1066	Class 2.2
Do not allow cylinders to slide or come into contact with sharp edges	
Nitrogen cylinders may be stacked horizontally provided that they are firmly secured at each end to prevent rolling	
First in – First out inventory system	

Uses and Features
To prevent the undesirable presence of oxygen, nitrogen is valuable in food packing, wine making, packaging and preserving rubber products and optics
Nitrogen is also used for the inert packaging of foods, sparging wines, pressurisation of head spaces in liquid containers and conveyance of beverages in pressurised pipe systems
Sterile environment–blanketing in food process



Cylinder Information						
Colour Coding	Cylinder Capacity		Pressure @ 20°C (Bar)	Cylinder Dimension		Valve Outlet Connection
	M <sup>3</sup>	CUFT		Height (mm)	Diameter (mm)	
Ivory with grey shoulder	6.8	240	150	1500	225	3/4" BSPF right hand female

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