

Synonyms: Dinitrogen



Gas Description

Nitrogen is mainly found in the atmosphere, where it accounts for 78% by volume of the air we breathe. Nitrogen is also found in the Earth's crust in organic form and in mineral form (ammonia), and thus contrubutes to soil fertility. In gaseous form, nitrogen in neutral and colourless gas. It is inerting and does not sustain life. It can be supplied in cylinders, liquified gas tank, by on site generator or by pipeline.

Typical applications:

Inert gas for pruging, pressurizing and shielding

Vector gas in electronic industry

Manufacture of fertilizers and explosives

Filling light bulbs mixed with Argon packaging of

pharmaceuticals and foodstuffs

Pressurizing oil wells Tire Pressurization

Zero and balance gas for analytical use

Transport Regulations:

UN Number: 1066

Shipping Name: NITROGEN,

COMPRESSED

Class: 2.2: Non-Flammable Gas

CAS Number: 7727-37-9

Hazchem: 2[T]

Click here for MSDS

Click here for more information

Physical Properties

Chemical symbol: N₂
Molecular weight: 28.01
Specific gravity (Air=1): 0.967
Specific volume (m³/kg): 0.86

Critical temperature : 147°C Boiling point : -195.9°C Melting Point : -210°C

Critical pressure (bar): 33.96

Major hazards: High Pressure, Suffocation

Toxicity: Simple Asphyxiant

Flammability Range: Non-Flammable

Odour: None

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Application	
INDUSTRY	APPLICATION
Chemicals	Quality protection of products and facilities.
Food Processing	Quick-freezing to preserve and protect foods Used pure or mixed with CO2).
Laboratories and Analysis	Used pure or in mixtures for various industrial and hospital analysis and quality control.
Healthcare	Low-temperature preservation of living tissues and cells
	Click here for more information

Typical Specification Comparison Table

Grade	Purity	Typical Impurities (ppm molar)					
		H ₂ O	O_2	THC	H_2	CO	CO ₂
Alphagaz 2	99.9995%	<0.5	<0.5	<0.1	<2	<0.1	<0.1
Alphagaz 1	99.999%	<3	<2	< 0.5			
Alphagaz 1000	99.999%		<2	<1		<1	<400
Alphagaz HP	99.995%						



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Gas		Cylinder informa	tion		
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m³)
Oʻ2	< 0.5ppm < 0.5ppm < 0.1ppm < 2ppm < 0.1ppm < 0.1ppm	G	AS 2473 T 50	16,600	9.2

For further information *Contact* the specialty gases representative in your region.

Nitrogen : Alphagaz 1		Min Purity 99.999%			
Gas		Cylinder informa	ition		
Typical impurities (ppm molar)		Cylinder Size Valve Con	Valve Connection	Pressure (kPa)	Contents (m³)
H ₂ O O ₂ THC	< 3ppm < 2ppm < 0.5ppm	G	AS 2473 T 50	16,600	9.2
Recomme	ended Equip	ment			
Dual stag	e chrome pla	ated brass body reg	gulator with a stainless st alty gases representative		

Gas Cylinder inform		tion		
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m³)
O ₂ < 3ppm THC < 1ppm CO < 1ppm CO ₂ < 400ppm	G	AS 2473 T 50	16,600	9.2

Dual stage chrome plated brass body regulator with a stainless steel diaphragm. For further information *Contact* the specialty gases representative in your region.