NITROGEN

MARKING		ESSENTIAL PROPERTIES		
CAS-Number	7727-37-9	Colourless, odorless, asphyxiating gas, compressed,		
Characterization	NITROGEN, compressed, 2.2	slightly heavier than air		
	Class 2, 1A			
Cylinder Marking	Grey / Black Shoulder	Symbol of Risks:		
		Non-flammable, non-toxic Gas, compressed		
		NON-FLAMMABLE GAS NON-TOXIC GAS		
Physical Properties		Major Hazards: High Pressure, Suffocation		
Molecular weight:	28, 0134 kg/kmol	UN Number: UN1066 (gas)		
Density ratio to air:	0, 9671	UN1977 (liquid refrigerated)		
MATERIALS				

CYLINDER SIZE	CYLINDER MATERIAL	PRESSURE	VALVE	PURITY
40 liter	Steel	150 bar	BS3 5/8"- Right hand	99.7%
50 liter		200 bar	Female connection	

CYLINDER RACK

8 CYLINDER RACK 12 CYLINDER RACK 16 CYLINDER RACK



APPLICATIONS

Food and Beverage: Nitrogen is very commonly used in contact with foodstuffs to avoid oxidation or micro-organism. Modified Atmosphere Packaging (MAP) preserves and protects foods.

Electronics: Nitrogen is used as carrier gas for overall protection against impurities and oxidation in semiconductor and soldering processes. In its cold and liquid form, N2 is used as a cooling medium in the environmental testing of electronic devices.

Automotive: Gas Assisted Injection Moulding requires pressures between 10 bar and 200 bar and a nitrogen content of between 98.0 % and 99.9 %. Tires' filling with nitrogen

NITROGEN REGULATOR



increase their lifetime and therefore decreases the recycling or treatment of this waste.

Oil and Gas: Quality protection of products and facilities (blanketing)

Chemicals: Nitrogen can be used for blanketing, Regeneration of purification beds, preparation of catalysts and

transportation of polymer powders and temperature control in reactors.

Pharmaceuticals: Nitrogen is used for inerting, cryo-grinding, drying, liquid phase transfer of products or synthesis intermediates; cryo-condensation of waste gases and low temperature storage.

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