

# NITROGEN N-5030 FILLING

Product group: **714**      Product number: **905208**

Nitrogen 3.0 grade is predominantly used for purging

## Product information

For nitrogen the following is valid:

1 nm<sup>3</sup> = 1.147 kg  
1 kg = 0.872 nm<sup>3</sup>  
1 bar = 14.5 psi  
1 nm<sup>3</sup> = 35.3 ft<sup>3</sup>  
1 kg = 2.2 lbs



The gas capacity of a cylinder can be calculated in two different ways. The most simple method is the water capacity of the cylinder (in litres) multiplied by the actual pressure (in bar); the result is the capacity in litres. Although a simple method it is not the most accurate method. A better but much more complex method will give a more accurate value for the gas capacity; it will take the compressibility of the gas at both 1 bar and at the actual pressure in consideration and all based on 15 degrees C. The result is often quoted as normal litres or normal cubic metres (nm<sup>3</sup>). For nitrogen the more accurate method will give a slightly higher value as compared to the simple method i.e. (10.2 m<sup>3</sup> versus 10 nm<sup>3</sup>).

## Features

- Nitrogen is a colourless, odourless and tasteless
- Non-combustible and non-toxic
- Slightly lighter than air and it's an inert gas
- Nitrogen is well suited for purging or flushing cargo tanks and pipelines of residual gases and vapours prior to loading cargo or doing maintenance
- It is also used as a 'blanket' on top of several types of cargoes to prevent reactions with oxygen from atmospheric air.
- The filling pressure is lower in some locations than the normal 200 bar due to local rules and regulations that limit filling pressure.
- Nitrogen 3.0 means > 99.9% pure and the impurities: Water (H<sub>2</sub>O) < 1000 ppm and Oxygen (O<sub>2</sub>) < 1000 ppm.

## Benefits

- Perfectly suited for purging, inerting / blanketing
- For your safety, the product is delivered in a U-nitor exchange cylinder complete with barcode and unique cylinder serial number
- We trace and track all cylinders using our system to give you peace of mind
- We offer global availability through our Global Exchange Programme.

## Specification

### General

Cylinder Type	N-50
Invent Hazard Material (IMO/EU) classification	NA

### Dimensions/Weight

Diameter [mm]	230
Gross Weight [kg]	92
Height [mm]	1690
Weight [kg]	11.5 Net

### Performance data

Gas Capacity [m <sup>3</sup> ]	10.2
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## Documents

[Nitrogen](#)

[SDoC and MD for IHM](#)

## Related products

### Accessories

<b>550160</b>	WASHER ALU 10 PCS FOR OX REGULATOR
<b>771713</b>	REGULATOR 600 NITROGEN 0-200 BAR
<b>510011</b>	REGULATOR 510 N2 FLOW 0-1.3 L/MIN
<b>510003</b>	REGULATOR 510 N2 PRESSURE 0 -1 BAR

### Physical properties

Colour	green
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### Technical data

Connection [inch]	W24.32mm x 1/14" RH Ext side
Filling pressure [bar]	200
Purity	
Volume (l)	50

### Is frequently bought together with

<b>698720</b>	AUTOTREAT - 25 LTR
<b>905034</b>	OXYGEN O-40 FILLING
<b>905607</b>	UNICOOL R-407C 52 KG REFRIGERANT
<b>905026</b>	ACETYLENE A-40 FILLING

<b>778147</b>	TROLLEY F/1 40-50L GAS CYLINDER
<b>510002</b>	REGULATOR 510 N2 PRESSURE 0-10 BAR

<b>571356</b>	ROCOR NB LIQUID 25 LTR
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