



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 nm³ = 1.147 kg
 1 kg = 0.872 nm³
 1 bar = 14.5 psi
 1 nm³ = 35.3 ft³
 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 (nm³). For nitrogen the more accurate method will give a slightly higher value as compared to the simple method i.e. (10.2 m³ versus 10 nm³).

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
- 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 (H₂O) < 1000 ppm and Oxygen (O₂) < 1000 ppm.

Benefits

- For your safety, the product is delivered in a Unitor cylinder complete with barcode and unique cylinder serial number
- We trace and track all cylinders using the UniTrak system to give you peace of mind

Specification

General

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

Physical properties

Colour	green
--------	-------

Dimensions/Weight

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

Technical data

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

Performance data

Gas Capacity [m ³]	10.2
--------------------------------	------

Documents

Nitrogen

Related products

Accessories

510002 REGULATOR 510 N2 PRESSURE 0-10 BAR

510003 REGULATOR 510 N2 PRESSURE 0 -1 BAR

771713 REGULATOR 600 NITROGEN 0-200 BAR

510011 REGULATOR 510 N2 FLOW 0-1.3 L/MIN

550160 WASHER ALU 10 PCS FOR OX REGULATOR

778147 TROLLEY F/1 40-50L GAS CYLINDER

This page is printed from:

<https://wilhelmsen.com/product-catalogue/products/gases-refrigerants-and-cylinders/gases/nitrogen/nitrogen-n-5030-filling/>