→ Fact Sheet

Nitrous oxide 2.5

Purity, %:

≥ 99.5

Impurities, ppm:

H_2O	≤ 10
Air components	≤ 5000

Specified data are ideal volume shares (=mole shares)

Type of supply:

MINICAN

Capacity, [Liter]	Cylinder contents, [kg]	Filling pressure, approx. [bar]	Gross weight approx. [kg]	Outer diameter approx. [mm]	Cylinder length approx. [mm]
1	0.021	12	0.140	80	270

Steel cylinder

Capacity, [Liter]	Cylinder contents, [kg]	Vapor pressure at 20°C [bar]	Gross weight approx. [kg]	Outer diameter approx. [mm]	Cylinder length approx. [mm]
10	7.5	50.8	24	140	970
40	29.6	50.8	90	204	1630
50	37.5	50.8	105	229	1640

Additional delivery types on demand.

Conversion factors:

m³ gas (15°C, 1 bar)	l liquid at T_b	kg
1	1.515	1.853
0.66	1	1.223
0.54	0.818	1

Identification:

Cylinder shoulder colour/ Circular colour strip at bundles	Blue RAL 5010
Label:	Nitrous oxide 2.5
Valve outlet:	G 3/8, DIN 477 No. 11; nitrous oxide 2.5: for steel cylinders with a water capacity up to 3 litres: G 3/4 internal thread, DIN 477 No. 12 (however, not for Linde Small Steel Cylinders)

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Properties: under pressure liquefied gas, oxidising

AGW value:	100 ppm
Chemical symbol:	N_2O
Molar mass:	44.013 g/mol

Tripel point:

Temperature	Pressure	Heat of fusion
182.3 K (°C)	0.878 bar	148.6 kJ/kg

Relative density based on dry air (15°C, 1 bar):	1.532
Critical temperature:	309.56 K (36.41 °C)
Boiling point at 1.013 bar (T_s):	184.68 K (-88.47 °C)

Applications: Carrier gas in analysis, oxidant

Also available: BIOGON® L flüssig E942
Distickstoffmonoxid 5.0

Mixtures with other gases in defined compositions.

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