



Product sheet Nitrogen 3.0

Product name	Nitrogen 3.0
Physical state	gaseous, compressed
Chemical sign	N ₂
Chemical designation	Nitrogen
Purity	99,9 %
Standard	is not subject to any standard
Properties	see safety data sheet
Shoulder color	jet black (RAL 9005)

Minor components	Maximum values
Oxygen	1000,0 vol. ppm
Moisture	100,0 vol. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Nitrogen T05 RCyl	S00300105	steel	5,0 l	200,0 bar	1,0 m ³	DIN 477 Nr. 10 W 24,32 x 1/14	
Nitrogen T10 RCyl	S00300110	steel	10,0 l	200,0 bar	1,9 m ³	DIN 477 Nr. 10 W 24,32 x 1/14	
Nitrogen T20 RCyl	S00300120	steel	20,0 l	200,0 bar	3,8 m ³	DIN 477 Nr. 10 W 24,32 x 1/14	
Nitrogen T50 RCyl	S00300150	steel	50,0 l	200,0 bar	9,5 m ³	DIN 477 Nr. 10 W 24,32 x 1/14	
Nitrogen RBundle12	S00300312	steel	600,0 l	200,0 bar	114,3 m ³	DIN 477 Nr. 10 W 24,32 x 1/14	
Nitrogen RBundle12 300 bar	S003003123	steel	600,0 l	300,0 bar	158,2 m ³	DIN 477-5 No. 54 CEN Nr. 1	

Unless otherwise stated, these refer to filling pressure at 288,15K (15°C) and to content at 288,15K (15°C) and 1,013 bar.



Typical applications

- for plasma cutting
- for inerting
- in the automotive sector
- in gas chromatography
- in metrology

Physical data

operating figures	Molar mass	28,01 g mol ⁻¹
Liquid State	Heat of Evaporation	198,70 kJ kg ⁻¹
	Liquid Density	808,6 kg m ⁻³
Gas State	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,0250 kg m ⁻³
	Density Ratio to Air (at 288.15 K and 1.013 bar)	0,97
	Specific heat (at 298.15 K and 1.013 bar)	1,04 kg m ⁻³
	Density (at 273.15 K and 1.013 bar)	1,25 kg m ⁻³
Critical Point	Temperature	126,2 (-147,0) K (°C)
	density	314 kg m ⁻³
	Pressure	34,00 bar
Triple Point	Temperature	63,2 (-210,0) K (°C)
	Vapour Pressure	0,1253 bar
	Heat of Fusion	25,8 kJ kg ⁻¹

All mentioned data, values and notes correspond to actual state of knowledge on the date of printing. They make no claim to be correct or complete and therefore do not release the user from his obligation to check them.

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