



Westfalen

Product sheet Specidur® Nitrogen

Product name	Specidur® Nitrogen
Physical state	gaseous, compressed
Chemical sign	N ₂
Chemical designation	Nitrogen
Properties	see safety data sheet
Shoulder color	jet black (RAL 9005)

Minor components	Maximum values
Hydrocarbons	50,0 vol. ppb
Carbon monoxide	1,0 vol. ppm
Carbon dioxide	10,0 vol. ppm
Oxygen	2,0 vol. ppm
Nitrogen oxide	20,0 vol. ppb
Dinitrogen monoxide	20,0 vol. ppb
Ammonia	0,1 vol. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Specidur® Nitrogen T50 RCyl	A04330150	steel	50,0 l	200,0 bar	9,6 m ³	DIN 477 Nr. 10 W 24,32 x 1/14	
Specidur® Nitrogen RBundle12	A04330312	steel	600,0 l	200,0 bar	115,2 m ³	DIN 477 Nr. 10 W 24,32 x 1/14	

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.

Specidur® Reinstgase Et Gasgemische zur Emissionsmessung

Requirements according to Regulation (EU) 2017/654, 2017/1151, 582/2011 and US Standard CFR § 1065.750 fulfilled.

Physical data		
operating figures	Molar mass	28,01 g mol ⁻¹



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Physical data		
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 J s ⁻¹ m ⁻¹ K ⁻¹
	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 kJ kg ⁻¹ K ⁻¹
	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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